

Thursday, November 11, 1982

ICL software fails second test

by John Kavanagh

ICL has been forced back to the drawing board for the second time to revise its Dilis package for controlling local authorities' direct labour organisations. The system has again been refused a seal of approval from the Chartered Institute of Public Finance and Accountancy – and ICL's local government customers are getting impatient at the company's failure to get Cipa's "preferred supplier" tag.

ICL and CMC were proposed as preferred suppliers by Cipa when legislation demanding closer control over direct labour organisations was introduced last year. Other suppliers bought the Cipa system specification and went ahead with their own packages but without the chance of a seal of approval.

Cipa's product passed the Cipa test but at the end of last month ICL's Dilis failed again.

Failure to get Cipa approval has now prevented ICL selling the system – it has about 80 orders and 40 users are already using it.

installing the product. But now they are urging the company to pump new effort into getting it right.

"At the end of the day this package has to work or there'll be all hell to pay," said Frank Baxendale, chairman of the Dilis user group and assistant treasurer at Lancashire County Council.

Baxendale said Dilis met the basic demands of the legislation but fell short of the minimum Cipa specification. "The seal of approval depends not only on whether the system does the job but also on issues such as documentation, ease of use and how far the system can be audited," he said.

"There are reservations, in some case serious ones, about whether the system meets all these demands. There are certain usability problems in particular which are significant. Some authorities are having extreme difficulty."

One satisfied user is Newcastle-under-Lyme District Council. "I think it is fairly easy to use – but we took a different approach,"



SCHUMANN and BLECHNER... Alive to more takeovers.

Star rises to full listing

by Ron Costes

SYSTEMS house Star will next month join the bare handful of UK computer firms which have attained a full listing on the Stock Exchange.

And the London-based company will be on the look-out for other companies to buy. Earlier this year Star took over the UK arm of Hartley, the Australian accounting systems house which went into receivership in its home country.

David Blechner and Jack Schumann, Star co-chairmen, have no immediate plans for takeovers. But Blechner said: "We have done our first acquisition and found that we quite liked it. We are alive to that."

"But the problem is, of course, to make the right acquisition. If you make the wrong one it takes up management time that you find you can ill-afford."

The new group will be administered from the IDPM office and will have close contact at branch level, with joint meetings being held with the IDPM's data processing manager members.

The aim is to help everyone from engineers to accountants to avoid pitfalls often met by users with no computing knowledge and to get the most out of their systems – with advice from the IDPM's professional members.

"Micro users in particular are often in very serious trouble," said Ted Cluff, IDPM secretary-general. "They start with simple single-user machines but grow to multiple files and multi-user systems and get up to their necks in computing. They don't understand the need for simple things like file back-up, things which are second nature to computer people."

"We at the IDPM feel we have an obligation to help end users. We don't want to make them computing professionals – we want to help them do their jobs better through computing."

Racal was singled out from a shortlist which included Clive Sinclair's company Sinclair Research. It is the first electronics company to be given the award.

IDPM group aims to help end users

by John Kavanagh

USERS from all disciplines are being offered a new forum by the Institute of Data Processing Management to pool their computing experiences and discuss problems.

The aim is to help everyone from engineers to accountants to avoid pitfalls often met by users with no computing knowledge and to get the most out of their systems – with advice from the IDPM's professional members.

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"We at the IDPM feel we have an obligation to help end users. We don't want to make them computing professionals – we want to help them do their jobs better through computing."

"I feel that if we can raise the level of end user computing competence, we are helping the UK

CLUFF... Pooling experience.

Directors' prize goes to Racal

by Kevin Cahill

ELECTRONICS group Racal won major recognition for its leading position in the UK electronics industry when the Institute of Directors awarded the company the Business Enterprise Award last week.

The prize, awarded annually, is the most prestigious commercial accolade after the Queen's Award to Industry and chairman Sir Ernest Harrison said that it was a tribute to a team of 19,000 people.

The trophy will be widely displayed throughout Racal, starting in the works canteens, according to Sir Ernest.

The award is sponsored by the Institute of Directors, Barclays Bank and the Sunday Telegraph among others. The presentation lunch is a charity affair which this year raised nearly £10,000 for the Royal Society for Mentally Handicapped Children, another of the sponsors.

"Atari was set up in Ireland four years ago at Tipperary, where it now has two factories. It has promised 600 jobs by 1983 to the Industrial Development Authority which attracted Atari to Ireland.

Chief executive and chairman Raymond Kassar said in Limerick that Ireland was a "terrific spring-board" for the Common Market.

LINE NOISE

APPLES certainly have appeal: Apple Computer is increasing its workforce from 3,500 to 4,900 in the financial year just started. Many of these people will be working on a new business computer, code-named Lisa and for several months the subject of industry speculation.

A STANDARD version of Mumps, the interactive language and operating system, is to be offered for IBM Series 1 users next year. US company Computer Technology Inc, of Germantown Tennessee, will come out with a version compatible with the soon-to-be-official 1982 ANSI standard Mumps, which is virtually the DEC standard version already available on PDP-11s.

HARD times continue at Storage Technology, it seems. After 400 layoffs in the US there is talk of more jobs going at factories in the Republic of Ireland and Puerto Rico. And employees will treat with misgivings a Christmas present of an extra week off as the firm extends its Yuletide shut-down from one week to two.

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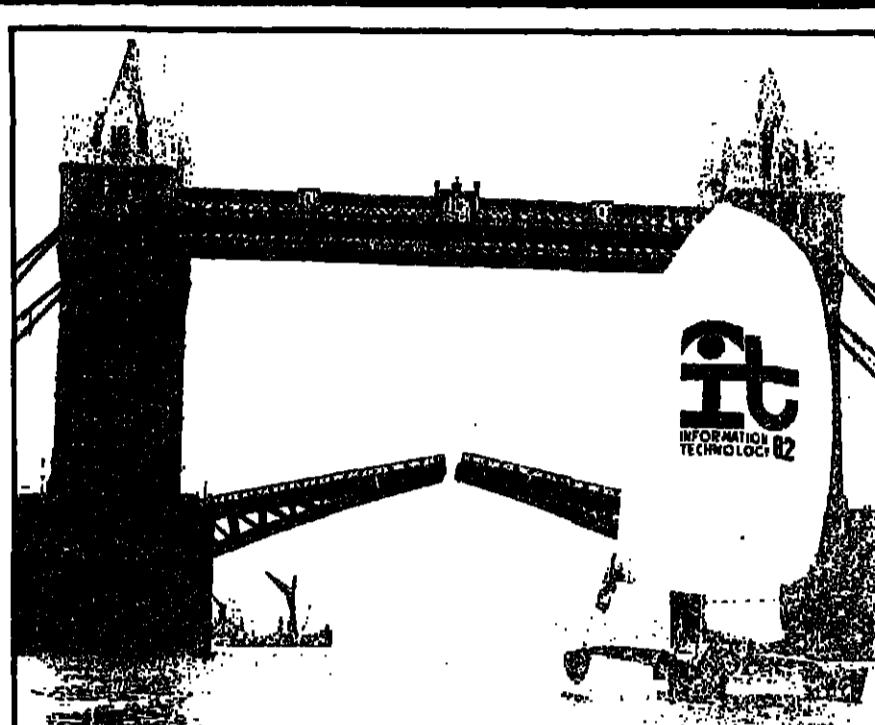
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RECRUITMENT AND EDUCATION SUPPLEMENT

Thursday November 11 1982 Number 835 35p

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THE
NATIONAL
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Compex Preview



Is Information Technology's boat coming safely into harbour for employees and employers?

NMW final goes on to the market

NANTWICH, Cheshire: Bureau NMW has cleared a legal hurdle and will make long-delayed listing on the listed Securities Market on November 15.

The bureau, set up in 1978, accounts for one-third of all exchange transactions made through stockbrokers. It has recently revealed mid-year profits of £305,529 on turnover of £1.2 million.

Cipa is now waiting to hear ICL's plans. An ICL spokesman said: "We are meeting Cipa very soon to discuss the reasons for the failure of the system to get approval. We will then provide a plan of action – we want that approval."

Other suppliers have complained about the "preferred supplier" tag. "Some of us feel we haven't done as well as we should," said a spokesman for ABS Computers, which has sold three direct labour organisation systems, including one to the Greater London Council.

"We had cases where we got to an advanced stage of negotiation with the building works department, only to be thrown out by the finance people because our system was not approved."

"There are reservations, in some case serious ones, about whether the system meets all these demands. There are certain usability problems in particular which are significant. Some authorities are having extreme difficulty."

One satisfied user is Newcastle-under-Lyme District Council. "I think it is fairly easy to use – but we took a different approach,"

Slump has not dimmed demand for skilled staff

Support for Ath

SIX leading UK software houses have strongly backed the report on future UK research. Logica, Parallel, SSDL, SPL and SSL are all go-ahead from the report.

The latest salary surveys

show that the recession is beginning to bite into the computer industry. Since the beginning of the year, the rate of salary increases for computer staff has been slowing down.

But earnings for specialist staff have continued to rise, which should surprise nobody.

And a full Compex recruitment supplement, an addition where 400 companies will be exhibiting and some 40,000 are expected to visit – these would all seem to be signs of a healthy and buoyant industry.

Or are they?

An abundance of job ads soon to be seen by some as a reflection of the same old problem which has always plagued the computer industry – staff shortages.

It cost Star £67,000 to get a listing on the USM. This was made up of bankers', lawyers' and accountants' fees and the cost of producing a brochure.

Star last year made a profit of £82,000 on a turnover of £4m.

argue that the campaign has had little or no demonstrable effect. The response of its sponsors will be that the effect will become evident in years to come. What IT82 did provide was a face, of Kenneth Baker M.P., Minister for Information Technology.

growth we enjoy is at the cost of the unemployed.

Employment prospects for Tops graduates still look poor, though according to another view, between 50% and 60% have found jobs.

Employers who have taken on Tops graduates are invariably satisfied with them.

But the situation we now have, according to one view put forward in this supplement, is beyond the means of parliamentary whizz-kids and faceless civil servants.

The hard core effect of technological revolution is upon us now, and the

services industry is one of the most rapidly growing sectors of the UK economy, but in recent years there has been no significant increase in employment there, though average turnover is increasing at 1.4% a year.

Consultants, software suppliers offer the best prospects while bureaux, which constitute the largest market sector, are reducing staff, particularly in data preparation services or similar labour-intensive work.

At the same time, there are an estimated 24,000 vacancies on the job market in computers. The computing

shortages on the one hand, and unemployment

on the other, reflect a crisis in training, a combined lack of formal education and experience.

The British Computer Society is aware of the crisis, and fears that the problem will get worse before it gets better, especially when the recession ends and demand for computer staff increases again.

The recruitment picture varies widely between the different types of jobs.

For many companies, it is time to batten down the hatches rather than undertake expansion programmes.

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INFORMATION TECHNOLOGY YEAR

THE most photographed face of IT Year must surely belong to Kenneth Baker MP, Minister for Information Technology. With a public presence rivalled only by the Princess of Wales, we have seen Baker cutting ceremonial ribbons, parading the heads of schoolchildren, peering intently over the shoulders of students and even, on one memorable occasion, cuddling a dog.

But the baby-kissing image, which has provoked some critics to dismiss IT Year as a massive and expensive PR exercise, is all part and parcel of Baker's mission to bring the message of information technology to the people.

For he is also the man who has adopted such emotive slogans as "automate or liquidate" and he has trekked the length and breadth of the country preaching the importance and urgency of harnessing the new technology and rescuing the world, and the UK, from decline.

Baker's appointment as Minister for Information Technology came in the grand government reshuffle of January 1981. It was a new post, including for the first time responsibility for all aspects of the computer industry. Baker was described at the time as a Heathite, a firm believer in government intervention in industry, and described himself as a "super salesman", whose job it was to spread the word of UK expertise wherever he went.

This year, the government is spending about £130 million on schemes which, in Baker's words, will "encourage the use and manufacture of IT products in the UK, and the training of a UK workforce able to ex-

A year of schemes and dreams for the government's IT-man

Judith Morris measures Baker's success in his mission to bring IT to the people

plot all the possibilities that technological advance will bring with it."

Baker has many major initiatives to his credit. The micros in schools project, for example, for which £4 million of Department of Industry money went towards putting a microcomputer in every secondary school is now extended to include 27,000 primary schools. Although Baker himself has said "Within five years I would like to see a computer in every child's satchel".

His vision of the future does not, thankfully, include the emergence of an intellectual elite composed of computer boffins who will push the rest of us around

giving them the chance to learn a skill and find a job in our increasingly complex society.

Another of Baker's major achievements has proved to be no less controversial. The liberalisation of British Telecom, announced well over a year ago, is facing criticism from those who say it is not happening quickly enough, and others, mainly trade unions, who say that it should never happen at all.

This argument is politically sound, too, at a time when the government is

nevertheless, the fact that

the British Telecommunications Act — which broke BT's monopoly — should be passed at all, is no mean achievement, even if it is now becoming clear that there are unforeseen difficulties in bringing together the state corporation and the private sector.

Cynics say that the scheme is a Tory party political device to get kids off the streets and off the dole, where they will return after a year with nothing but the kind of basic skills the industry does not really need. Baker defends the £9 million scheme by saying that it is

can receive grants of up to 33 1/3% of the total set-up costs for introducing robots on to their shop floors.

The introduction of robotic systems is likely to lead to some loss of jobs in the manufacturing process," admits Baker. "But the analysis must not stop there.

Ironically, the Alvey report came up with some of the strongest criticisms of

complaints from industry that BT was setting up another closed ring of preferred suppliers have been joined by a massive trade union drive against the privatisation of BT which was demonstrated in a one-day strike by 180,000 BT employees last month.

But the Bill, which may become law next July, will still be Baker's baby, and in his own words "the most important we shall pass in this Parliament."

Against this backdrop of unrest, Baker has relentlessly pursued his policy of advocating IT enthusiasm wherever he goes. One of his main duties has been to dispel anxiety about the social and political effects of the micro revolution, which has led to many dramatic speeches, many of them defending his ambitious robotics plan.

Robots count among Baker's favourite things. His personal conviction of their place in society lies behind the Industrial Robots scheme, where companies

Although still being discussed, the government

is unlikely to accept that this sort of money should come out of the public purse. Ken Baker could be biting his nails right now as he awaits Mrs Thatcher's decision on the report.

What will become of the strongest criticisms of



BAKER... For all his enthusiasm, a realist at heart

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PROSPECTS IN THE '80s

Many companies have 'frozen' the filling of computer vacancies, says Ted Cluff

'No one will come into DP without some qualification'

Baker's policies including an state-of-the-art micros scheme, which is "producing a range of poor Basic products".

However, data processing report should be as by Baker and his

"Politicians are

information

this year. "If they

arrived of it they

the most dimen-

drawal symptom."

As Information

Technology Year

close, it will be

see how Ken Ba-

man at the Minis-

with withdraw-

from the public

What will beca-

we wonder?

TO look at the job advertisements in Computer Weekly, one could easily believe that nothing had changed in the past five years and that prospects in data processing were as buoyant as ever.

It was then commonplace to talk in terms of 24,000 vacancies in DP. But it would be a brave person indeed who applied the same figure to 1982 in spite of the fact that the industry has expanded significantly since 1977.

Taking expansion figures of both 15% and 25% per annum in connection with extrapolations over the remainder of the '80s, it would not seem unreasonable to assume something between the two during the last five years of recessionary

periods.

Nevertheless, it is far from satisfactory if something like 40% of those trained with taxpayers' money cannot find a job in DP because of the usual demand for experienced people.

Although probably not strictly related, professional membership of the IDPM has expanded by 79% over the last 3½ years.

Looked at from another angle, the employment position in DP since the recession started — and it didn't reach its present serious proportions all at once, it was an accelerating process — has looked positively gloomy.

Let us all be very clear about the consequences. Although we know (or shall we say hope) that the recession will decline one day, if a switch were thrown to lift it effects within very short period, our industry would be so short of those with two years' experience that it would make the previous occasion of this kind seem an irrelevance.

An industry growing at 50% and 25% per annum in difficult times and not at same time providing job opportunities for the already

inadequate numbers being trained, must expect, and will suffer from, major market distortions when the day of reckoning arrives.

So, are there really 24,000 vacancies out there still?

Of course, it is difficult to say with certainty but there are a large number of companies which have "frozen" the filling of any vacancies in the DP department. For the sake of their economic well-being as much as it may be, they are prepared to suffer the consequences of squeezing DP below its normally inadequate establishment.

"Suitable" might be too strong a word because as the weeks slip by, a number have been willing to take a

Over and over again, one hears glowing reports from employers about Tops people

described as a cottage industry, with over 700 home-based staff.

If on the other hand we manage to face up to and remedy our known deficiencies, one can envisage three main developments, the embryos for all of which are with us today.

The first concerns the

prognostications of those

commentators who forecast

the end of the application

programmer. This is often

taken to mean the end of

programming as we know it,

with the implication that

programming is a dead end.

Conversely, there is a

view that simply because we

are unable to significantly

increase programmer pro-

ductivity, the alternative un-

controlled growth in pro-

grammer population is a

price no nation can afford.

The number of pro-

grammers employed will

continue to grow but they

will be distributed differ-

ently from present practice. One can virtually envisage an end to in-house program-

ming in the small and

medium-to-small instal-

lations, with replacement by

package programs and soft-

ware houses. The larger

installations will suffer some

decline in in-house applica-

tion programmer resources

for similar reasons.

Having said that, it is

clear that there is no lack of

people willing to come for-

ward and be trained for

work in data processing.

The BECTEC classes up

and down the country are

well supported; so are the

ONC/OND classes. The

take-up for Threshold and

Tops places continues to be

position which they might

have turned down in better

times. But accustomed stan-

dards of living are a power-

ful incentive.

Not surprisingly, the

older the person, the more

difficult it is to find a new

position. One member of

the IDPM, a data

processing manager, viewed

his prospect with alarm

when his company was

forced to stop trading.

Geographical situation

has an impact not normally

taken into account. A good

job in an installation in

pastoral surroundings, accepted

a few years ago seemed

great. Ten minutes by car

from home, a more leisurely

way of life, no race, splen-

did for the family, a large

vegetable patch and

what more can one want?

The company closes and

there are only two other

installations within 25 miles.

Statistically, the chance of a

vacancy at the right level

and right salary are close to

zero.

One interesting conse-

quence of the economic sit-

uation has had a marked

effect on DP employment.

We have customarily talked

COMPUTING SERVICES

The services industry is expanding, but employment in the sector has not increased Douglas Eyeions reports

THE computing services industry has been one of the most rapidly growing sectors of the UK economy in recent years. But it comes as a shock to realise that there has been no significant increase in employment in computing services during the last year.

After growing at about 8% per annum throughout the 1970s, the number of people employed in computing services companies has shown no overall growth in the 1980s.

The annual survey carried out among the Computing Services Association's (CSA) member companies, published in September this year showed that there had been a total growth of about 1.2% in staff numbers, to bring the total number of staff employed by the 183 member companies to 26,800.

One and a half per cent is not statistically significant because of the wide scatter among the respondent companies. In a separate survey of the top 20 employers in the UK computing services industry, only five companies reported a significant increase in staff during 1981, with nine reporting a very significant decrease in the total number of staff employed.

The employment situation is patchy. The general pattern that emerges is that the percentage increase in staff is negligible for large companies, but becomes an appreciable percentage for the small companies which are continuing to grow in spite of the recession.

The total revenues of the companies are increasing at an average rate of over 14%

A versatile job-hunter should go where the growth is — sales

per annum, which is keeping ahead of inflation so that there is some real growth in.

Computing service companies are shedding surplus staff whenever the opportunity arises, to improve the competitiveness and profitability during the period of economic recession. One company reported a 30% increase in revenue for a 14% increase in staff during the last year, while another reported over 20% growth in revenue for a decrease in staff of 10%.

The companies which are doing well and offer the best prospects of employment are the consultancies, software houses, systems houses and turnkey suppliers. The main reductions in staff are being experienced by the bureaux which constitute the largest sector of the market.

Many of the large bureaux have had substantial redundancies during the last year and many others have reduced numbers by "natural wastage" or by transferring staff into non-bureau activities.

There are several reasons for this reduction in the employment opportunities offered by service bureaux.

The most obvious problem during the recession has been the fall-off in the number of transactions be-

ing processed by the bureaux. This is different from the problems being experienced by airlines or hotels and represents a lowering in general economic activity.

If there are more unemployed people, then there are fewer payrolls to process. If people are buying less, then there will be fewer invoices to process.

The next reason why bureaux are employing fewer operational staff arises from the changes that are taking place from the old batch processing days.

Women who worked in data preparation were the first to experience this reduction in employment. The number of women employed in the bureaux dropped from 30% of all computing services staff in 1971, to 8.8% in 1981.

Data control staff and computer operators, who grew considerably in number in the mid-70s, are now beginning to decline.

More and more responsibility is being handed back to the customers so that the bureaux are sharing the labour-intensive activities.

Remote batch entry, interactive and time sharing services all require fewer data preparation staff, operators and data control staff. Intelligent terminals now allow a great deal of

editing to be done on input data so that fewer human beings are required at the central processor to handle the increasing amount of work which is being processed on a routine basis.

This trend is now spreading to disc handling and tape handling. Magnetic tapes are being used less frequently in favour of discs of mass storage devices. Disc loading is being reduced as fixed discs grow in popularity, and so the need for operators is beginning to fall off.

A major cause of the drop in demand for bureau staff arises from the move of customers away from bureaux to standalone minicomputers and microcomputers. Bureau proprietors recognise this trend and are increasingly involved in the installation of hardware on their customers' premises so that they are diversifying into new businesses.

But this does not alter the drop in loading of the bureau computers and this trend has accounted for the shedding of many bureau staff during the past difficult year.

Prospects for programmers are much brighter, but even here actual employment has levelled out rather than increased. There is undoubtedly an increase in demand for software for all sizes of computer. But the move to software products and application packages is reducing the proportion of custom-built programming

carried out by the computing services companies.

The increase in demand for software is largely being met by the sale of software products and, of course, the labour requirement to write a software package which sells many hundreds of copies is not all that much greater than the programming effort required to write a custom-built solution for the same application.

But good people in this category are not cheap: jobs lightly, and the service companies are not going to employ inadequately matched people at a time when profit margins are difficult to maintain because of the economic recession.

Sadly, the computing service companies have exceptions to their custom which means they prefer experienced staff to trainees if they are available. Therefore, the computing service companies have reduced the intake of trainees in common with most other employers in the computing industry.

The number of salespeople has trebled during the last decade to well over 2,000 at present. With the move towards application packages and turnkey solutions, the requirement for salespeople will continue to grow. The best advice to a versatile person seeking employment in the computing services business is to go into sales, because this is where the prospects of employment are best, and incidentally, where success is probably most generously rewarded.

• Doug Eyeions is director general of the CSA.

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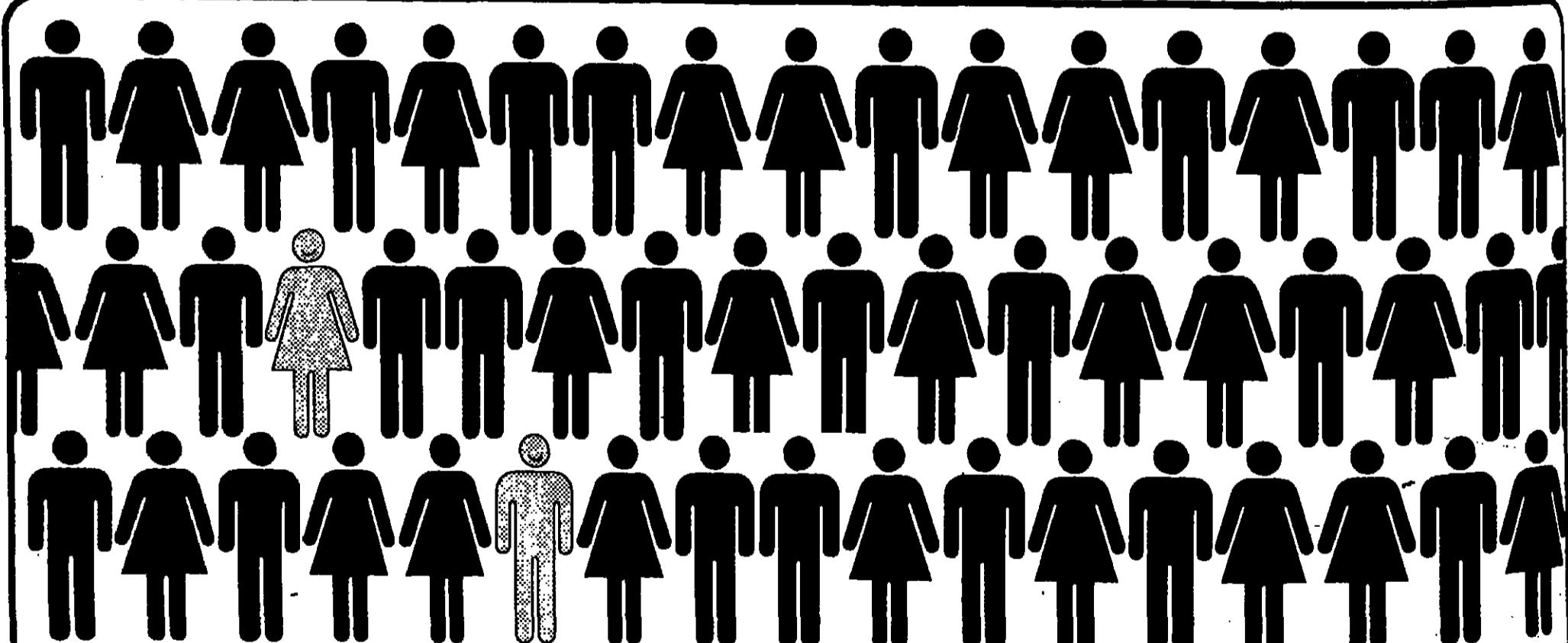
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SALARY SURVEYS

Pay rises in computing look promising for the coming year

John Aczel examines wage trends in the past year and makes some predictions

THE overall rise in salaries has been slowing down in the computer sector, and this trend has been evident since the beginning of the year. Earnings for specialist staff, however, have continued to rise appreciably, as there is still a shortage of certain grades of highly skilled personnel with the right type of experience.

These conclusions can be derived from the latest survey carried out by the Computer User's Year Book. The investigation is conducted every year, and is based on an analysis of the salaries received by over 22,000 personnel employed in the computer industry. Nearly 1,300 computer installations were included in this survey, which usually carries considerable weight within the computer industry, particularly for salary negotiations.

The breakdowns given in the Computer User's Year Book's investigation are detailed, and show salaries analysed by various job categories, such as data processing manager, chief system analyst, programmer and other job titles. In addition, the figures are broken down by other categories, such as regions and location.

According to this survey, salaries of data processing personnel went up by an average of 7.7% in the

twelve months ending in April 1982. This growth was considerably less than in previous years, when salaries rose by 15.4% in 1981, and by over 21% in 1980.

Evidently, there were considerable variations among computer grades, ranging from less than four per cent to over 14%, depending on job title.

Highly skilled personnel with specialist knowledge were in great demand, and their salaries recorded an

Those in the higher salary brackets, that is £18,000 or over, stand a very good chance of having a company car, as over 70% had this facility in 1982.

above average increase during this period. In particular, systems programmers had a rise of 11.7% in earnings, while senior programmers had a growth in salary of 10.8%.

In contrast, salaries of trainees went up by less than 5.5%, while a similar trend could also be seen for certain types of computer operators.

The growth in salaries in the computer sector has compared favourably with other industries — in many sectors, salary rises have

been quite small and have been affected by the recession and the downturn in the general economy. Thus, overall wages and salaries in British industry have gone up about 6.5% on an annual basis, whereas the computer sector has enjoyed a higher increase during this period.

When measured against the rate of inflation, salaries in the computer sector have not moved up as much as retail prices. According to the latest official statistics,

inflationary trends went up by about nine per cent up to the second quarter of 1982, though, since then, the rate of price increases has slowed down and is now believed to be about seven per cent.

There were many reasons for the slowdown in salary increases, but one of the main factors has been the dramatic fall in inflationary trends. For instance, retail prices in 1980 went up by 12%, while in 1981, the rate of inflation was about 18%.

Another important in-

fluence has been the trend in employment in the computer industry. There have been considerable cutbacks in the level of employment in the computer hardware sector, with the number of full-time employees falling by over five per cent among leading computer companies. Moreover, unemployment in the hardware industry has increased, with the total rising to over 12% of the total labour force.

According to Reward, variations occur according to the regional factors, and, as one would expect, London and the South-east show some of the highest pay structures. But one interesting figure which this survey throws up is that Scotland is now among the highest paying regions in the UK, and, in some cases, provides better rewards than the London area. In September 1982, for example, a computing manager in the London area would earn about £15,433, compared to £16,164 in Scotland.

It is difficult to predict the prospects for salary increases. For one thing, the trend in the general economy in terms of growth and employment have to be taken into account. At present, it appears that some recovery in economic activity may occur during the next 12 months.

Inflation is another important factor, and many commentators are now confident that the rate of price increases will slow down even further. It may fall to about six per cent per annum during the coming years which will be one of the lowest rates of inflation.

Thus, average increases per cent per year are likely, while some highly skilled people could receive increases of 10% or more.

All in all, the odds

salary gains in the comp-

industry look more

over the next

moreover, higher

benefits are also likely

given to attract the

type of personnel, espe-

cially in the services sector.

Major Retail Development

This UK market-leader is currently embarking on a major development programme involving the development of sophisticated Electronic Point-of-Sale systems which will link a nationwide chain of retail outlets to their Data Centre in Hampshire. They are involved in the development and conversion of existing systems to run on newly installed IBM 4300 hardware utilising CICS and DL/1. They seek to appoint two D.P. professionals to spearhead a planned development programme for the 1980's which will see the Company emerge as one of the most technically advanced retail organisations in the U.K.

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Systems Development Manager

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LABOUR DEMAND

Paul Fisher reports on the employment prospects in computing

Industry is looking for staff with specialist skills

RECRUITMENT into the computer trade has levelled out with the demand for labour remaining similar to this time last year. If not growing, it nonetheless remains a fairly healthy business to be working in.

Computer people are changing jobs at about the same rate as last year. Computer Weekly continues to thrive on much the same number of job advertisements, this Compex supplement is still a substantial publishing venture and the Compex show itself will pack 40,000 fully employed individuals through its

Compex's hordes will be a fair cross-section of the trade as a whole. There will be no discernible orthodoxy among them about the question of computers creating or destroying jobs. Some would push the line that digital technology is essentially labour saving and that is a vital part of many a sales pitch, however discreetly in-

duced.

Others would sit on the fence and talk of increased efficiency and redirection of labour, while optimists would assert that the technology on display creates fresh demands for new services.

People outside the computer trade have a far simpler view and hold that technology destroys jobs. This is hardly surprising

when the creation of poverty and unemployment on a scale to match the Thirties has coincided with endless hullabaloo about new technology.

Since the Tories came to power, unemployment has leapt from a little over five per cent to nearly 14% of the workforce. Of the 3.3 million people now drawing dole, 400,000 have been doing so for two years.

While workers in heavy manufacturing and the public sector have seen their jobs disappear, workers in the computer trade have prospered.

Is Compex, with its conspicuous display of commercial techno-brightness, the place to point an accusing finger? Many would say it is, and they can buck the "More technology equals less jobs" claim with arguments of some substance. Take for instance, a Labour Research Bargaining Report which examined 127 offices where modern equipment had been installed. It found that a third of them had reported job losses.

Perhaps that is all the reason to blame automation, because in those 40 or so offices efficiency had been increased. Perhaps the technology as a whole if those who were made redundant can't find more productive employment than merely doing on employment.

Clarke has looked abroad to expand his business and what UK growth there has been for him has come with

do better.

If the economy continues to stagnate, then technology will take a portion of the blame for further unemployment. It doesn't have to be this way though. Computers do not exist in a situation of static demand, there is no fixed amount of goods and services required.

Technology can, and

should be, a tool for creating opportunity. To take a banal example, during the time that UK unemployment has

more than tripled, Japanese unemployment has all but

doubled — from one per

cent to two per cent. It

would be difficult to blame

that on technology.

Having become as firmly established in society's infra-structure as the motorway network, the future of the computer trade will now tend to reflect the economy rather than act as a stimulant or a depressant.

To concentrate invest-

ment in service sectors of technology might not be particularly productive. Increased investment here would, of itself, have a relatively small impact on unemployment.

Even the vastly optimistic Report on Cable Systems, commissioned by the government and prepared by the Information Technology Advisory Panel, did not anticipate any huge effects on employment.

Optimism will rule at

Compex. Among the exhibits there will be even fewer mainframe products in evidence than last year, with more emphasis on products for smaller localised computing needs. There has been a corresponding shift in the demand for labour, a factor borne out by the experience of recruitment agencies.

Alan Williams, of Sales and Marketing Recruitment, points to communications and microcomputing as growth areas but does not see micros creating much demand for labour.

This is partly because they are manufactured in the US or Japan and partly because of their tendency to rely on packaged software. And the demand for packaged software he thinks is spreading upwards from small systems thus tightening things up in the market for programmers.

Les Clarke, manager of Kalgate Programming Support, has a similar report. Demand for menial DP work has dropped as has the demand for Cobol programmers. Clarke reckons he has placed 20% more contract programmers this year although this could be an indication that employers are no longer prepared to hire permanently.

Clarke has looked abroad to expand his business and what UK growth there has been for him has come with

systems engineering. It "expects to employ more next year". Meanwhile, it has kept its UK staffing at a constant 15,000 since 1980 with a turnover well under five per cent.

For the unskilled newcomer to computing, things are tougher than ever. The Manpower Services Commission trained 4,300 under the Tops scheme between April 1981/2 and 1,480 under the Threshold scheme.

An MSC spokesman says:

"We anticipate no upturn in demand for the next year and therefore our intake of the courses will remain constant."

Another indicator of lack of buoyancy in computer recruitment is what those already employed have reported in this year's pay round. The most recent Computer User's Year Book carries a survey of 1,289 Df sites and reports a below inflation salary increase averaging out at 7.7%. This compares with over 15% in 1981. Skill and position claimed the largest increase with systems programmers getting 11.6% and data processing managers nearly 10%. Operators only managed four per cent.

To conclude, the computer recruitment market is a fairly good shape. Demand is shifting from menial skills to more specialised skills in micros and communications. As ever, skill is a premium. Overall there have been few signs of growth this year and, as long as the recession continues, any growth there is will be local.

Compared with computing in the Seventies, things are on the gloomy side, it's a more difficult industry for the newcomer to enter and the rewards are no longer increasing exponentially.

scientific work, particularly for programmers with skills in Fortran.

If Hewlett-Packard is anything to go by, employers are getting very picky indeed. HP has recently opened a software R&D centre (significantly enough for office products) and says it chose the UK as one of the best sources in the world for computer science graduates. Before hiring 14 graduates with 300 fresh college leavers coming on to its books this Autumn.

IBM has had a more modest demand for graduates and only took on 72 this year, most of them into

labour demand is fairly static.

On August 31 this year ICL had 23,830 on its payroll, of

whom nearly one third are working abroad. That is a reduction from 1981 when it employed 25,564 and a further reduction from 1980

when it employed 33,087. However, for the first time in three years it has taken on

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CDV 6350/E, enclosing a full c.v.

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BANKING

No easy solutions to the banks' requirements

Emlyn Williams looks at how recruitment firms can serve banks

There are three industries, above all others, which directly reflect the evolution of the world in economic, political and social terms. They have tended to develop requirements which have driven information technology ahead, rather than simply making use of advancing technology.

These industries are aerospace, oil (particularly exploration) and banking. It is not by accident that they spend vast sums in the creation of information systems, since their performances have to be of the highest order. Nowhere is this more true than in banking, which is inevitably the institution whereby world trading and the processes of living are sustained.

Of late, much publicity has been given to some of the problems facing the world of international banking, in particular, and doubt has been voiced in many quarters about the safety of the world banking system. Such problems have been exacerbated as it has become increasingly difficult for banks to raise enough funds to meet the ever-increasing requirements of international trade and country funding.

This fund-raising difficulty is the result of two fundamental considerations:

1. There is now very little surplus oil money circulating within the banking community — for example, the OPEC countries now have a current account deficit of \$9 billion up to September 1982.
2. The banks now experience much greater competition for money from such quarters as building societies and trust companies.

This all adds up to the fact that large banks, particularly international banks, see a marketing shift in their future — for example, reduced lending to countries which have difficulty in repaying their loans.

Consequently, the multinationals, large corporations and institutions have become a more attractive proposition, since their business is international and therefore slightly less subject to the fortunes of one country. Competition for this sector is going to be more severe than ever before, and the key to success lies with the banks which are best at satisfying these clients on a world-wide basis.

This means that banking services will become more specialised among the larger banks, with the small and medium sized banks pursuing their own specialisations.

Despite a temporary lull in demand for qualified personnel, the banks will inevitably look for certain key skills to meet and overcome challenges to their future. More than ever before, multi-disciplined teams are needed to chart the way ahead will be needed.

Foremost among the technical disciplines required will be proven database management and communications expertise. Since the banks will be looking to their future requirements, a broad and detailed knowledge of banking in

line updating software. Increasing emphasis will be placed on application dedicated, sophisticated, micro-based systems linking into mainframes and ultra large, dispersed function processors. Particular expertise will be required in the design, integration and evolution of such systems for the mid to late '80s.

Inevitably there are very few people who will be able to provide all the necessary skills; consequently demand will exist for each skill to be able to inter-relate closely with the others.

Such inter-relationship will occur along parallel lines, and will therefore require key personnel to possess the ability to relate laterally to each other, as well as forwards to cover forward thinking.

Complementary to such key skills will be sustained demand for personnel with systems knowledge and implementation experience within banking, who quite often will have to be capable of working in dispersed overseas environments on detailed adaptation of application software standardised for global use within a bank.

Demand will remain for IBM 38/4300, etc, experience, concentrating on RPG/III and Cobol, CICS, DL/1, etc. But microcomputers will increasingly penetrate banking and the advent of 16- and 32-bit micros will necessitate design knowledge of transaction processing and the ability to write high performance front-end and on-

Emlyn Williams is managing director of Lombard Systems International.

standing in this field. Since so much will be at stake for bank, market response will be very selective and biased towards agencies which demonstrate in-depth understanding, creating credibility and professional trust.

Where does the solution lie?

The successful recruitment specialists will see the true economic sense (the marketing costs are accounted for) of syndicating together to supply a major client — in much the same manner as banks do when funding a large loan — yielding greater net revenue per syndicate member, in this way a one-stop supply source of skills will be established.

The composition of such syndicate will comprise specialist recruitment concern exclusively involved in supplying the banking and insurance fields, plus member agencies with a track record and expertise in finding and supplying specialist skills.

2. Specialist DP recruitment concerns (involved in communications, database, etc) — in the same way as bank personnel departments and software houses — are going to find it increasingly less cost-effective to supply a bank with multi-discipline skill requirements on their own. It is necessary for the recruitment agency involved to possess a real track record and in-depth understanding of the intended discipline and specialist systems areas involved.

It will be economic nai- vete to attempt to supply key skills to banks without the ability to demonstrate adequately a real understanding of banking.

Emlyn Williams is managing director of Lombard Systems International.

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THE SALES RECRUITMENT SCENE

Alan Williams warns that, as the technological revolution bites, 'things could get much worse for some companies'

LOOKING back at my notes for 1980 the most significant thing to strike me was the grimments I made about unemployment in that year. Two million out of work seemed to be a very big number then, yet here we are two years later with twice that figure (if you take into account those people who do not or cannot register as unemployed).

At that time I was having trouble convincing people we would have five million unemployed by 1985, and while no one actually laughed at my unfriendly prediction, I don't think it was taken too seriously either. The way things are it seems we won't even have to wait that long.

I believe it is only just beginning to dawn on some politicians, but certainly not all, that we have a situation on our hands that is beyond the means of parliamentary whiz-kids and faceless civil servants.

The hard core effect of technological revolution is upon us and only tomorrow, via the means of that exact science hindsight, will we discover who paid the price for this "brave new world".

It is so easy to be complacent within an industry such as ours which continues to enjoy a significant overall growth despite difficulties in some areas, much of which is unquestionably at the cost of many of those who have already or will eventually join the ranks of the unemployed. Yet there are signs that things could get much worse for some computer companies and problems of survival will not be limited to the new or small companies.

Many long-established

Small, up-and-coming firms doing better than the 'giants'



WILLIAMS . . . "The situation is beyond the means of parliamentary whiz-kids."

major computer suppliers will need to do some deep thinking and carry out some draconian actions if they intend to be around much longer.

There is at least some comfort in the fact that there appears to have been no significant reduction in the amount of recruitment advertising since 1980.

Some of us continue to be busy with a comprehensive portfolio of job vacancies and client assignments but the overall picture is certainly affected by some

major suppliers who currently have a formal or informal freeze on recruitment. In some cases this involves personnel of all types; in others salespeople are excluded. In some circumstances there have already been redundancies, in others the primary purpose of stopping further recruitment is to reduce the headcount by way of natural attrition.

The nature of response to advertising continues to be unpredictable in both volume and quality and thus we are unable to perceive any meaningful trend in the movement of salespeople. Certainly the response for management jobs has been as good as ever and conversely the supply of salesmen in the 25-35 age bracket with a proven track record of sales success within any significant sector of the computer industry continues to be as inadequate as ever.

Sales trainees don't stand much chance in any part of the industry, be they graduates new to the business, or

technicians wanting to get into selling, experienced salespeople required by several relatively new entries to the marketplace. Unfortunately things appear to have gone quiet.

On the good news side some parts of the computer industry continue to do extremely well while others are positively booming.

Microcomputers obviously head the list with tremendous growth not only in the small business sector and throughout major corporations and institutions, but also the technical and industrial areas, particularly control systems. The opportunities this success creates for salespeople lie primarily within OEM/distributor sales for manufacturers or main agents. Selling one-off, low cost turnkey microsystems should be approached with caution as there is often insufficient profit margin to justify the cost of direct sales.

Suppliers of telecommunications equipment also appear to be doing well at all levels from modems and multiplexers to terminals and total front-end systems.

The financial pressures of economic recession have also had the effect of increasing the acquisition of external expertise as opposed to incurring the costs of growing it or sustaining it internally. Consequently there has been a significant

I wish you all the success you deserve!

upturn in the demand for turnkey solutions in the form of both total data processing systems and software packages. The increased use of contract personnel also comes into this category.

One dominating factor within this scenario is that by and large, the small up-and-coming companies based on the latest technology products are generally doing better than the giants of the establishment.

For many salespeople who perceive within the situation the need to search for new pastures, these upstarts offer the excitement, challenge and relative freedom of working within a small company environment. On the other hand they also imply much greater individual exposure.

Success or failure is much easier to identify when there is nowhere to hide.

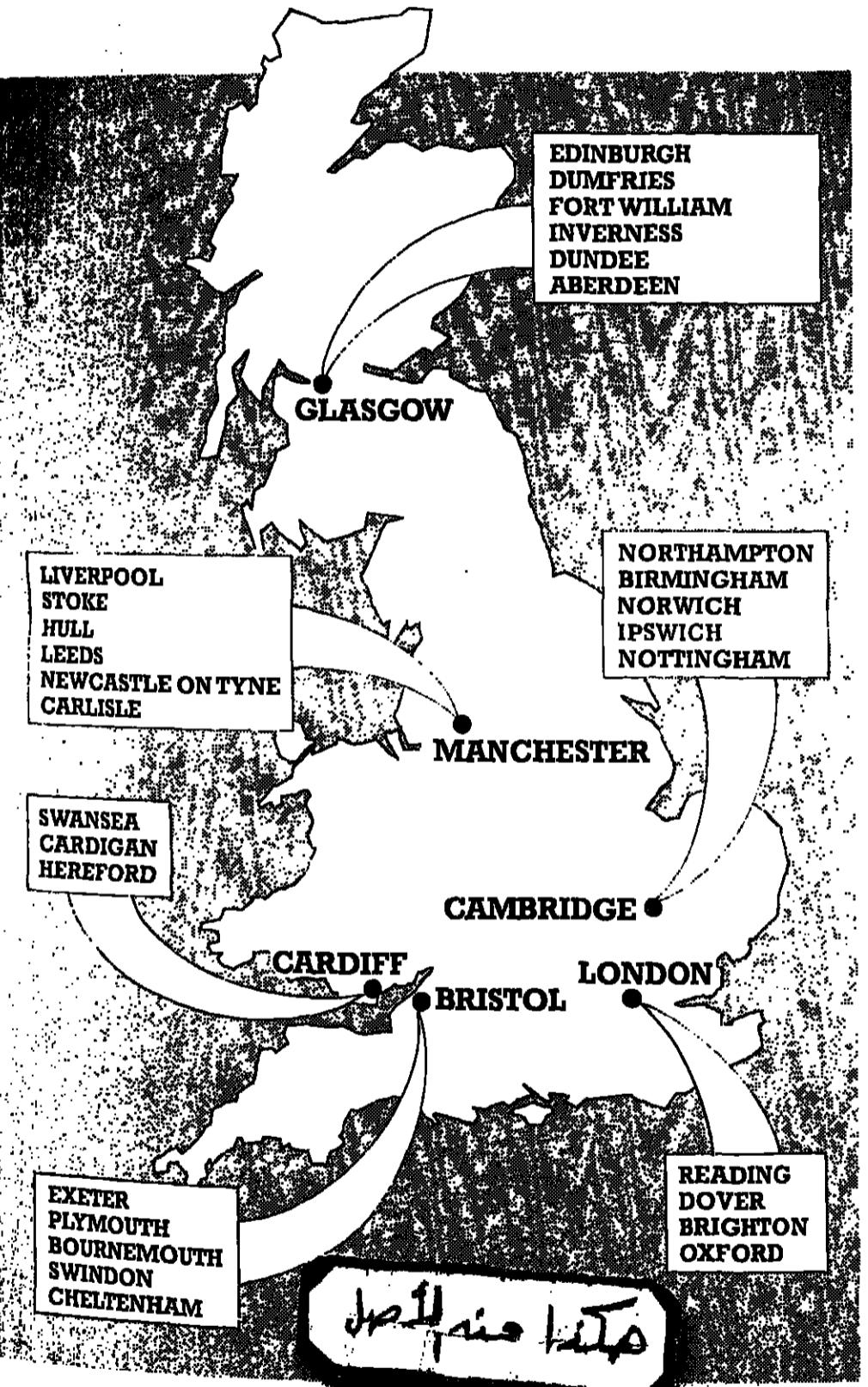
For those who have already decided to seek a new job or may do so in the future there are some basic considerations. Most important is to consider whether changing companies is really as smart as it sounds. If you are happy with your product, your colleagues and your sales success, why move unless you are absolutely sure your career requirements cannot be satisfied where you are?

On the other hand, if you are absolutely convinced that your career objectives can only be met by moving, be sure you do so only after consideration of what you want from your career, what you can achieve it and the kind of companies where it can be found.

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GUIDE TO DP TRAINING

Alan Simpson beats a path through the mass of training schemes

An industry with 24,000 vacancies can't be all doom and gloom

DP training, it seems, is a matter of considerable interest - and irritation - to the DP industry.

For from being a background service enterprise which it is hoped will produce suitable candidates or enhance existing skills, DP training has become in the past year a factor of front-page headlines, controversy and not a little agony.

For a start, a specially designed training course to help the uninitiated would be useful. The items on this train-in agenda would include an explanation of such terms as Tops, Threshold, BEC and associated TEC plus Scotbec, MSC, PER, ITC, RSA, CGI, OU, IAM and not least IMS.

A quick discourse would also be helpful on the education and examination roles of such bodies as the British Computer Society, the IDPM and the NCC and an evaluation of their respective education and training qualifications.

Possibly the most newsworthy in the Tops scheme, organised by the Manpower Services Commission. In particular, the Tops courses have come un-

der heavy flak from the IDPM, which believes that an industry register should be established to assist qualified Tops trainees to get into computing. Co-operation between the industry and the Commission is a matter of some urgency, the Institute feels.

At a time when the recruitment needs of the industry are not expanding, the increasing rate of production of qualified trainees is a troublesome matter.

With a current estimate of over 7,000 DP personnel actively seeking jobs, prospects for first-time entrants are not bright.

However, when balanced with the shortage of programmers and analysts, currently reported as exceeding 24,000, the DP recruitment outlook is far from total gloom and doom.

Given such a general air of uncertainty, it is not surprising that computer appreciation courses have become a strong growth area. Companies such as ITB, which offer both internal and external courses in basic appreciation and awareness, report that they are attracting representatives from both large and small companies.

The larger organisations are sending members of their junior management

automated office. The resultant requirement for operators, programmers and controllers will be considerable for some time to come.

DP training in the 1980s

will involve the office manager as much as the computer graduate. Possibly the most frequently heard question being asked by the company management of anyone in or on the periphery of data processing is "How do we get started?" and the equally unanswerable question "What computer system do you recommend?" Even the most raw ITB recruit would have no hesitation in answering that it all depends on individual requirements, both in the short and long term.

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Given the impetus of the Information Technology Year publicity machine, companies are being encouraged to adopt the concept of the

teams to gain a working awareness of the potential of the micro. Meanwhile, the smaller company representative is likely to be a senior director or partner, anxious to grasp the basic appreciation principles of computing technology.

Dr Adrian Stokes, director of computing at St Thomas' Hospital, who runs the ITB computer courses,

believes that only a few companies are fully aware of the potential benefits of the micro - or the potential menace. Putting a micro into a company should be a controlled operation, preferably masterminded by one individual. Otherwise the organisation could end up with an assorted collection of incompatible Apples, Pcs and DECs.

Closely involved in all levels of DP training is the NCC which, at the micro end, provides centres which supply user training and the opportunity to select (but not purchase) ranges of equipment. Keith Holden, who is responsible for the NCC training consultancy service, has a full-time task merely keeping pace with changing technology and user requirements.

The circles often trigger a

software packages will likewise reduce demand for trainees. Despite this, the NCC reports a continuing demand for training particularly in such newly emerging areas as Cobol 80X programming which will have a worldwide effect on all installations.

At the same time, in-house training awareness courses must respond to the introduction by manufacturers of new computer and communication technology. In turn, it will be the responsibility of senior programmers to translate the new features to their teams.

On a wider basis, the NCC has established what it calls IT Circles. These aim to create a series of workshops which can respond to users' collective needs in the various developing areas of technology.

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demand for specific training courses with the result that material being used as a basis of possible regular NCC courses. The NCC also provides a series of pilot sessions both in London and Manchester covering sub important DP technology areas at local and public networks.

The greater use of package software has encouraged the NCC to set up a series of software appreciation courses for company management. These will include such well known packages as VisiCalc and Wordstar.

However, the NCC sees the recruitment situation improving, but probably not to the previous job vacancy levels. Holden states that there is a strong question mark on the demand for Cobol programmers in the computer industry. Although sometimes expensive, these courses offer professional expertise in many levels of technology.

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OPS JOBS

Operators will switch from a 'shop floor' to a supervisory activity, says Margaret Park

Not so much a dying breed, more a change of role

COMPUTER operators are like whales these days. Controversy surrounds the question of whether they are going to survive as a species and even whether it's desirable that they should.

What is certain is that the whole operations function is about to go through a radical change.

The metamorphosis of operators is one effect of recent progressions in data processing. Operators are the mainstay of the big mainframe computer installation. Sometimes described affectionately as "tape slaves" or "tape apes", they are responsible for running each job on the computer.

They are there to see that the machine gets the input information it needs, that the right sort of output is produced at the end of each job, and that jobs are run on schedule.

But mainframes are stepping aside for minis and micros which don't need operator intervention.

The operator is really a sort of interface between the user and that strange and frightening machine chugging away in the bowels of

the building.

But in the last ten years computing, as well as getting cheaper and smaller, has moved towards letting the end user do as much of his own work as possible.

So with distributed

processing and micros, the user — the accountant or salesman, for example — inputs his own data and gets back information via his own VDU.

In mainframe processing, operating systems are becoming more capable and there has been a big step forward in the sophistication of operating software.

Last month Computer Associates brought out an operations tool called CA Scheduler which does for a mainframe (CA's software is aimed at IBM machines) everything that an operator would do.

Scheduler is a high level control language which analyses the jobs to be done from information stored in its in-built database. It has a testing function which leads it to a decision about the priority to be given to various jobs, and totally automates the business of

monitoring efficiency, timing and documentation of programs.

Each job is defined in the database and any external personnel merely have to update that database if necessary.

When CA launched its operations management system, as it is called, managing director Harry Gordon said he wanted to "automate the last department in DP."

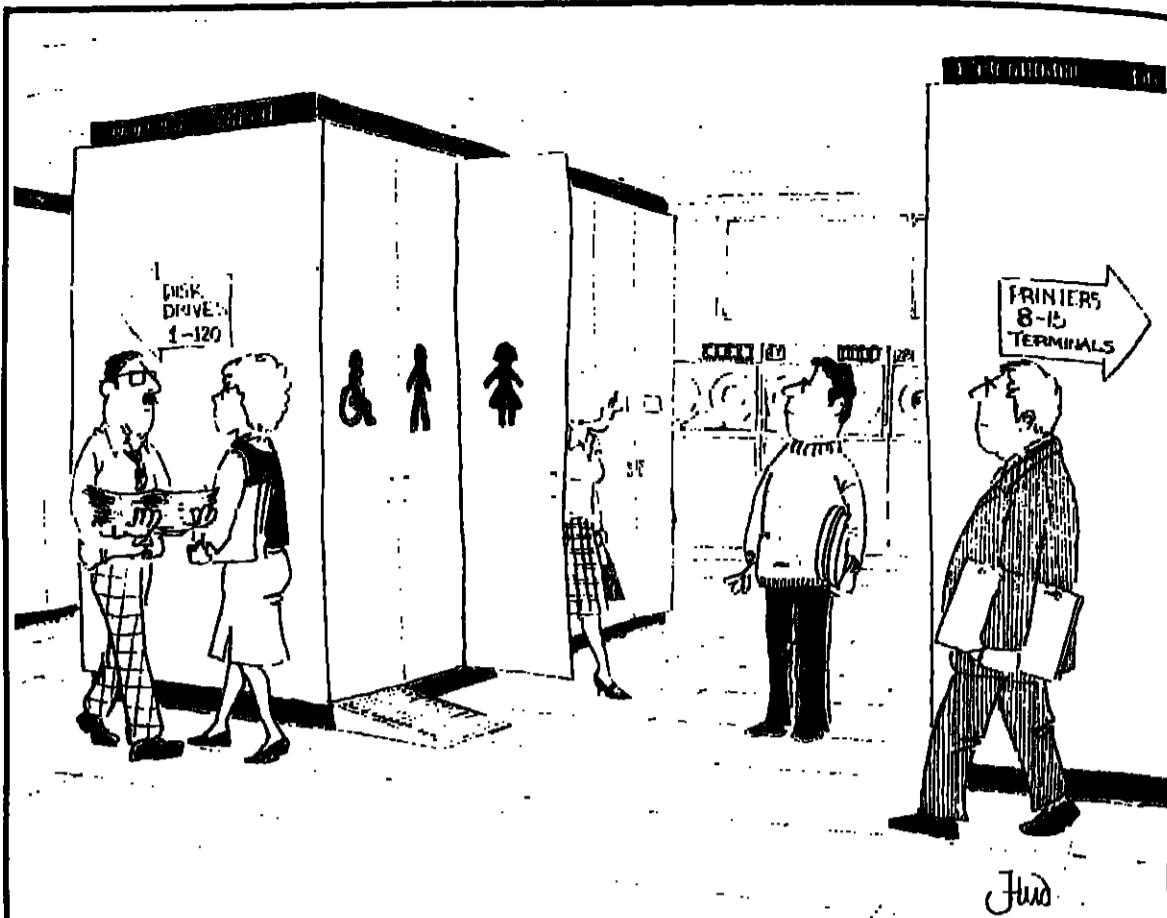
The point is that mainframe computing has to keep pace with other developments. If a user finds that a big centralised system is going to be complex and expensive to run in terms of clocking up a large salary bill for operators, then he's likely to turn to micros or distributed processing.

But this is not to say that the death knell has already sounded for operators. It means that their function is going to undergo a dramatic change.

Instead of being the "shop-floor" activity, it is now, operations is going to turn into a much more supervisory activity.

The operations management systems cost several thousand pounds, but they are still cheaper than buying

The job will be upgraded,



but as is usually the case when job functions change and become upwardly mobile, there will be fewer operators around.

In an average size DP department a software product like CA's Scheduler will do the actual operating, taking the place of half-a-dozen shift-working operators, and one person will be all that is needed on each shift to look over the shoulder of the system.

The operations management systems cost several thousand pounds, but they are still cheaper than buying

the attentions of a team of operators.

A survey of salaries and the cost of living, published in October, discovered that already computer operators don't exist in their old numbers.

Peter Brown, of Reward Regional Surveys, which produced the report, said: "Computer operators do not represent a significant job category in most of the companies we surveyed.

"Only very large firms

minicomputers are being installed in user departments," he said.

Existing operators are either going to slot into the supervisory role that seems to be being carved out for them, or they will think about moving on to programming.

The operator's job, like all those at the production stage of any process — manufacturing for example — has undergone more changes than any other DP function.

All this sounds like gloomy news for operators. But the message has to be that operators must realise how things are changing and be prepared to make themselves upwardly mobile in the jobs market before the market leaves them standing.

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Our client, a well known and established manufacturing company with locations throughout the UK have agreed a strategy increasing their commitment to DP services. Current hardware is based on two IBM 4341's running under DOS/VSE and the company would like to hear from Programmer Analysts with around two years' experience on IBM mainframes supporting Cobol. Candidates should have the ability to write and design systems in an on-line environment and a knowledge of CICS or DB/1 though not essential would be advantageous. In addition to an attractive salary, a range of benefits are available normally associated with a company of their standing.

LOCATION: OXFORDSHIRE

JA308/1

HFC Trust Limited are a major consumer finance and banking service organisation with over 140 branch offices throughout the UK. Increasing business has created a requirement for a number of Programmers to complete a development team now implementing a system designed as the basis of a network supporting all the UK branches. Applicants should have 18 months' IBM COBOL experience, with a background in any one of the following areas — OS/VSE, JCL, CMS/DL or Easytrieve. In addition to salary there are a number of benefits normally associated with a financial institution including non-contributory pension, BUPA and free life assurance.

LOCATION: BERKSHIRE

JA308/2

One of the world's leading manufacturers and suppliers of photographic materials and equipment are seeking to expand with the addition of a Programmer Analyst. Ideal candidates will have spent a minimum of two years' programming in Cobol and had an exposure to analysis in a commercial environment. The current hardware strategy is based on a range of Honeywell equipment and therefore knowledge of GCOS and TPS6 would be highly desirable. A familiarity with the principles of IDMS would also be advantageous. In addition to salary there are a number of large company benefits which will include assistance with relocation.

LOCATION: CHESTERFIELD

JA308/3

Overseas Containers Limited, a world leader in container transport, has a requirement for ambitious Systems Programmers who are capable of exploiting their experience in an innovative and dynamic environment. The ideal candidate will have a thorough knowledge of DB and TP software (preferably IDMS, CICS and VTAM) and will form part of the TP support team. This team will be involved in major software upgrades to support an expanding TP network. Software plans for the coming year include installation of NCC/TPAF, ACFT/VTAM version 2, MVS/SP3 and CICS 1.6. OCL offer excellent salaries and the usual benefits associated with a large organisation.

LOCATION: LONDON

JA308/4

Our client has an international and dynamic reputation for designing and building fully integrated software and engineering systems. New orders have provided interesting opportunities for Systems Designers to work on the development of display and data handling systems for advanced technical applications. The successful candidate should have around seven years' systems design and implementation experience, a developed understanding of real time software in a mini/micro environment, and an ability to convey ideas and concepts effectively. Additionally, some knowledge of hardware and electronics would be advantageous, but not essential. Company benefits are generous including relocation, flexible working hours and five weeks' holiday.

LOCATION: ESSEX

JA308/5

Microcomputer Products International are leading suppliers of software for OEM based micros. Planned expansion has created the need for an additional Programmer to provide customer support and develop programs and systems, utilising an extensive range of microcomputers. The successful candidate should have gained around five years programming experience in a large mainframe environment supporting Cobol. In addition a knowledge of Assembler is desirable and applicants will be able to demonstrate effective user liaison skills. Salary is in a range according to experience and in addition to usual benefits this position will attract free membership of BUPA.

LOCATION: BARKING

JA308/6

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European Recruitment Officer £12,500+ Brussels

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up to £12,000
(review March '83)

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This is an excellent opportunity to join an interesting and exciting company who are constantly developing and expanding their business into new areas of activity and are therefore able to offer a wide scope of opportunities for people wishing to develop their careers.

Ref: 1111/B

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A good salary is supplemented by attractive banking benefits.

Ref: 1111/C

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Ref: 1111/D

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Ref: 1111/F

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1111/G

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MARKET FOR PROGRAMMERS

As turnover has slowed down, so have competitive salaries in what remains a healthy field, says Margaret Park

THE job market for programmers is one of those much discussed and rarely settled issues that appears to change with the speed of the British weather.

Every shock-horror score about programmers' future has been aired, denied and argued over.

First, criticisms were that programmers were so badly trained that they were unemployable before they began their careers. The government sponsored Tops retraining schemes have been under heavy fire for attempting to teach too much in too short a space of time and with inadequate teachers and facilities.

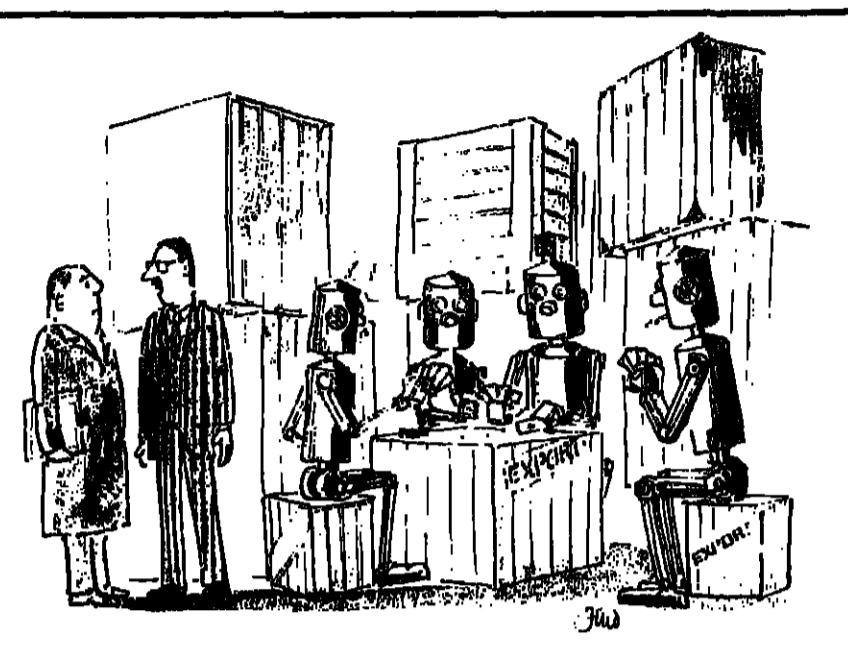
"Tops students always need training from scratch when they arrive on site," said one exasperated employer. "More damage than good has been done by the Tops courses - they have to be completely re-educated in programming techniques," he added.

Other employers swear by Tops graduates, and will accept no substitute. Star Computer Group went for a job lot of 10 Tops graduates in August. All were taken on as programmers.

The recruitment market for programmers is not quite the boom area it was a few years ago. Then programmers seemed to have an unlimited choice of jobs, salaries and locations.

For graduates from universities and polytechnics, salaries and prospects in the computer industry soared way ahead of every other profession. Numbers of undergraduates studying engineering and computer science even threw up their courses in favour of immediate cash.

Downturn has brought a change in programmers' jobs



"I want whoever programmed these robots in my office NOW!"

Jobs were in such plentiful supply that getting the actual degree wasn't always a necessity.

But from 1980 onwards the recession slowly started to bite even in this self-sufficient corner of industry.

Consequently programmers and other computer workers have become just like every other employee. They think long and hard before throwing up one job to move to another.

So as turnover has slowed down so have the competitive salaries.

But the job market for programmers is still a healthy one. The way the downturn has showed itself is not so much in a shortage of jobs but more a change in the sort of jobs on offer.

Businesses have been forced to tighten belts in every department, and in the computer department this means cutting down on numbers, as it does everywhere else. Instead of recruiting teams of staff with general programming abilities, employers are concentrating on taking programmers with particular skills.

John Haig, a consultant with AB Executive, a Bristol recruitment agency said: "Our clients are looking for skilled staff with three or four years' experience in

hardware completely and in need of a complete system rewrite.

Some employers are giving programmers control for one or two years, up the managing director of another agency.

These employers are probably those who are trying to cover all escape routes by making no long-term financial commitment in terms of recruitment and they see how the economic climate will develop.

DP managers are spending their salary budgets on essential co-ordinators and team leaders, so to some extent lower level recruitment is having the hardest time.

The market for contract programmers, according to the contract agencies, is thriving. One might think that if employers are watching the number and quality of staff they employ, they might pick on contract workers as a dispensable

One suggested that programmers should push for DP managers for training if they can persuade employers to let them learn more technical skills for potential job market immediate expands.

Their present employers can hardly complain. In the not too distant future they may be looking to those skills themselves as will be glad, if they manage to hang on to their eager-to-learn staff, that they educated them in advance of their needs.

The Manpower Services Commission appealed last month for opinions from employers and trainees on how the much maligned Tops computer training programme can be improved.

A spokesman for the MSC said it wanted "lots of feedback."

And one of the MSC priorities at the moment is investigating how most Tops students can be turned into employees.

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Will be graduates with several years experience in a technical or software environment and will be responsible for the specification of new systems and for the supervision of the teams concerned with their implementation.

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A Senior Operations Analyst is required to play a major part in the development of a new MVS support team.

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This demanding position would be of interest to people of a broad technical background within operations, including a minimum of three years in a support/analysis role with an in-depth knowledge of IBM utilities such as TSO and VSAM.

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The role offers a challenging opportunity to participate in the necessary and critical information processing development. It is felt that anyone under 30 years of age is unlikely to have the requisite experience. The post should appeal to those currently earning at least £12,500 p.a.

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To apply, or for more information, please telephone Stephen Brown on the number below.

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Analyst

We also seek an analyst to work in a team on the implementation of new accounting and financial systems. The successful candidate will have 1-2 years analysis experience, preferably with a programming background, and a knowledge of the following applications: accounting/financial systems, documentation, system testing and user training. You must also be able to communicate with users, formulate requirements coherently and produce specifications.

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Space is limited yet we have plenty more to tell you, so for more information please contact Sandra Hersh on 01-734 7394, or on 01-794 8346 evenings and weekends.



London West Computer Recruitment

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A major financial institution is seeking a senior analyst or experienced programmer to lead a pilot API project. Successful completion of the initial project will lead to internal API consulting assignments with users to develop systems running on large in-house IBM main frames. A sound knowledge of API, and good analytical and communications skills are required. This is a first class opportunity for a person with several years' d.p. experience who is looking for the chance to progress. Ref: L101

PL1 Programmers

City

c.£8K +

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This is a good opportunity for programmers to advance their careers in a progressive environment. There is an excellent employment benefits package. Ref: L102

Chief Systems Analyst/Programmer

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A new important position exists for a senior IBM professional seeking to move into a management role. Personal responsibilities will include some analysis and PL1 programming on a large IBM 4341. A minimum of 7 years' d.p. experience - which must have included project team leading - is essential.

This is a career opportunity in an attractive location. Re-location assistance is provided. Ref: W501

Analyst/Programmers and Programmers

Swindon

Up to £9K

A large financial group has several vacancies for analyst/programmers and programmers to work on on-line systems on PDP11/70 machines running under RSTS. An IBM machine is also installed. The three year future development plan includes a country-wide network of linked processors. These are exciting opportunities for programmers with about 2 years' Basic Plus and analyst/programmers with 4 to 5 years' of Basic Plus and RSTS/E experience.

Excellent company benefits package. Ref: W502

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Company benefits will be discussed at interview; re-location assistance is available. Ref: W503

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Up-to-date analysts will be in increasing demand

As the use of computers spreads through the professions, the market for analysts remains healthy, says Margaret Park

THE market for systems analysts looks set to be a healthy one for some time.

Analysts are not threatened by new developments such as program generators and operations software.

As long as analysts keep themselves up-to-date with technical advances, their own task is unchanged and increasingly in demand as the use of computers spreads through the professions.

Numbers of systems analysts have moved on from programming, disclassified in many cases with their limited role in the business of putting a computer system together.

Analysis can be more varied, connected as it is with systems design and systems development. But there is some disagreement among employers in the industry about what systems analysis actually is.

Most say that their analysts are technical people, usually specialists in a particular brand of hardware or an application, perhaps accountancy systems or databases. As well as visiting clients and analysing their needs, this sort of systems person will also take part in the design and implementation of the final system.

Others, who must be noted because they include big employers such as Computer Analysts and Programmers (CAP), say that their analysts don't concern themselves with the technical aspects of putting a system together and instead are simply business analysts.

Alan Gough, a training manager at CAP, said that for his analysis staff the computer is just a black box.

"They are concerned with organisation and methods," he said. "They think about the movement of paper around an office, and how that process can be computerised."

Gough spoke out against taking on technical staff as analysts. "People who move over from programming think more at the user's site about how to implement a system on the

computer and not about the user's needs.

"We prefer to feed in people with knowledge of other disciplines, accountancy for example, who will be more user-oriented."

So at companies like CAP, systems analysts are business experts with an eye for management theory and methods of organisation.

But most would-be analysts are more interested in a job which includes making decisions about equipment and software.

About 12,000 analysts worldwide have a qualification in the subject which is administered jointly by the National Computing Centre (NCC) and a sub-group of the British Computer Society known as the Systems Analysis Examination Board.

The syllabus of the course reflects changes in systems design and fashions in design methodology.

The syllabus is currently under review. Keith Holden of the NCC said: "Proposals have been submitted both from us and from the BCS about how the course material should be updated. We want to introduce more on recently developed technology and systems design techniques."

"Analysts are having to re-educate themselves," said one employer. "They'll eventually be in trouble if they choose to ignore progress in design techniques."

"Systems design has moved from batch oriented systems to on-line facilities and more recently on to distributed systems and databases."



"The NCC's draft proposals emphasise methodologies more than ever," said Holden. "And we want to update the course to include more on networking and data communications."

Holden denied that the trend in systems analysis is away from mainframes. "Although micro and mini are being used more and more in things like local area networks," he said, "analysts aren't in a position to favour one machine above another."

Systems analysts have to keep pace with many controversies about design techniques. Methodology (that is, techniques of systems design), flood the UK from the US as interminable discussion about the merits of each is constantly underway.

The NCC did its own survey of the design methods that are being taught and applied in the UK. "We concluded that a lot of jargon was being introduced for the sake of it," said Holden. "One or two seemed to be useful; the Youden method for example is one of the most widely used."

The NCC admits that having a qualification in analysis is not important in the job market. About 1,000 students a year take the NCC paper, either at technical colleges or sponsored by employers with computers like Altergo which have commercial training units.

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So at companies like CAP, systems analysts are business experts with an eye for management theory and methods of organisation.

But most would-be analysts are more interested in a job which includes making decisions about equipment and software.

About 12,000 analysts worldwide have a qualification in the subject which is administered jointly by the National Computing Centre (NCC) and a sub-group of the British Computer Society known as the Systems Analysis Examination Board.

The syllabus of the course reflects changes in systems design and fashions in design methodology.

The syllabus is currently under review. Keith Holden of the NCC said: "Proposals have been submitted both from us and from the BCS about how the course material should be updated. We want to introduce more on recently developed technology and systems design techniques."

HARDSELL CONSUMABLES

TELE & FIELD SALES OPPORTUNITIES WITH MULTI NATIONAL GROUP

National Computer Supplies - part of Visonhire Communications Ltd - want to recruit Tele Sales people to work from our Yorkshire and West London bases - and Field Sales staff for the London area. We can offer excellent salaries and a pile of fringe benefits.

The Network and Communications Department is responsible for developing these network systems to conform to nationally agreed standards for universities. The Head of Department can expect to participate in the planning

and co-ordination of communications in the national academic community

with the objective of allowing users to obtain easy access to computing

resources. The Department is also responsible for providing support and

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Switzerland

SENIOR SCIENTIFIC SYSTEMS DESIGNERS

CENTRAL LONDON

£12,000-£17,000

One of the UK's most professional and successful Systems Houses with a track record second to none in providing R&D to Government and Industry, seek additional Senior Scientific and Software Designers with extensive experience in their respective fields.

The Company have a number of openings now at Senior Grades for applicants with several years' experience (up to 10 plus) in Military and Defence projects.

Candidates must have a strong academic background to include a numerate degree or in a computer-related subject, ideally they will have worked in Systems Engineering or Software Designs for a number of years on Defence/Communications projects.

Successful candidates can expect to join a company where professionalism comes first and where the quality of projects and experience gained will enhance their careers for many years to come.

Please contact the advising consultant on 01-399 9183 or write to us preferably enclosing your C.V. Ref: CW4512.

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Switzerland

Telecommunications Software Development English Speaking Project

We have been retained by an international telecommunications company to recruit several SOFTWARE ENGINEERS to develop and implement software for a NEW PUBLIC DATA SWITCHING SYSTEM, involving working on Operating Systems, Diagnostics, Telex applications and X25 interfaces.

Candidates should have a degree, 18 months plus Assembler experience, preferably in a Telecommunications environment on minicomputers. An in-depth knowledge of Real Time Operating Systems would be advantageous.

Successful candidates may look forward to enhancing their career prospects, gaining valuable experience in an international environment. CW45/1

Interviews will take place in London in December. For further details on the above two companies, conditions of employment and living in Switzerland. Please send a C.V. or telephone for application form quoting reference number.

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CONTRACTS

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N. EUROPE

We are seeking experienced real time programmers and consultants to work on Military and Defence applications for our client in Northern Europe. Relevant experience includes RTL2, CORAL, PASCAL, ASSEMBLER, DEC PDP/VAX or similar background useful. Contracts are for 1-2 years in duration. Ref: Elaine 853

IBM PL1 IMS DC

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Programmer - start now - 6 months. ADF & Jackson very helpful. Ref: June 846

IBM Fortran + JCL

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Technical background essential. January 83 start - 2 year project. Ref: June 851

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Technical background essential. January 83 start - 2 year project. Ref: June 850

WEST GERMANY'S RHINELAND AREA

12 months duration, starting ASAP. Very good rates, inexpensive accommodation. Development of a large scale data entry system, writing programs in COBOL and ASSEMBLER. We wish to hear from present and first-time contract staff who are experienced in IBM 8100 programming. Ref: Neil 795

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One systems programmer is required with experience of SNA, VTAM and NCP to start ASAP. 4 months initial contract. Ref: Elaine 854

Mini Computer Contracts

Do you have a minimum of 3 years Programming, Design, Analyst experience working within a MINI COMPUTER ENVIRONMENT? ALL AREAS AND POSITIONS COVERED. Ref: Suzanne 844

SEL 32 MPX 32

Analyst/Programmers

BELGIUM

Analyst/Programmers required with experience of above machine and O/S ASSEMBLER essential and knowledge of FORTRAN and process control advantageous. Start date November. 6 months extensible. Ref: Elaine 821

ICL 2900 VME

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We have a variety of long term assignments for Systems Engineers with experience of one of the following specialties:- DUMP CRACKING/TUNING TELECOMMUNICATIONS TELEPROCESSING/DATABASE. Fluency in French an advantage. Duration one year to start January 1983. Ref: Laurie 837

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Programmers for development work. Long term, ASAP start. Ref: June 848

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Development of Real-time applications software. Start ASAP. 6 months duration. Ref: Laurie 823

MOTOROLA 6809,

Programmer

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6809 Assembler Programmer. Start ASAP. 4 months duration. Ref: Laurie 852

IBM

Analyst

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Life Assurance experience. Start ASAP. 6 months. Ref: Laurie 838

WEST LONDON

Programmers with Data General experience. Business Basic running under RDOS. Ref: Suzanne 831

IBM COBOL MVS

CICS DL1

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Programmers for development project. ASAP start - 4 months. Ref: June 827

PERMANENT

OPERATOR/ADMINISTRATOR - IBM 4341 running under DOS/VSE. Central London. Days only. Salary c.£7,500 - £8,500. Ref: Ops 034

IBM 4341 OPERATOR with DOS/VSE and CICS. Middlesex area. Two shift system. Salary to £8,000 with bonus. Ref: Ops 032

ICL OPERATOR with 6 to 9 months GEORGE III experience wanted for East London site running 2900 under DME. Salary to £6,000. Ref: Ops 031

OPERATOR/SNR OPERATOR required for large International company to work in Belgium. IBM 4300 experience under DOS/VSE. Salary £10,000 p.a. Ref: Ops 029

HONEYWELL JUNIOR OPERATOR with 6 months experience on LEVEL 6. Salary Neg. London. Ref: Ops 037

Experienced OPERATOR required to act Assistant to EDP Manager and eventually become EDP Manager. Salary to start £6,000. Ref: Ops 033

CONTRACT

VME/B OPERATOR and TECHNICAL SUPPORT people required for contracts starting in January 1983. Ref: Ken 147

GEORGE II OPERATORS required for various assignments now and in near future. Ref: Ken 148

DATAPOINT ARC OPERATOR with DOS experience required urgently. Ref: Ken 149

ICL 2904 OPERATOR required for installation in City for 3 month assignment. Ref: Ken 150

OPERATIONS

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ICL 2904 OPERATOR required for installation in City for 3 month assignment. Ref: Ken 150

Rapid expansion in the software development activity at our Livingston facility has created the following vacancies. These are senior posts and we are looking for people with at least 4 years relevant experience. As well as being technical leaders in their field candidates (male or female)

for these posts should possess the ability to motivate and lead others.

SOFTWARE SPECIALISTS

Compiler/Languages

If you have extensive experience in the development of compilers and an interest in the future direction of programming languages, you can help shape the future of programming language development for our financial products. Familiarity with various languages and their areas of application is required.

Communications

An individual is required with considerable experience in the development of communications software. The ideal candidate will be familiar with SNA, X.25 and the ISO open system model and will be expected to take a lead in defining our future networking strategy.

Burroughs

Operating Systems

We also require people with experience in developing basic operating system software, especially those with a background in microprocessor based real-time systems. This is a rare opportunity to play a leading role in defining the architecture of our future products.

All positions carry excellent career prospects and first class conditions of employment.

For further details contact Frances Hill, Personnel Officer, Burroughs, Simpson Parkway, Kirkton Campus, Livingston. Telephone Livingston (0506 414111).

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LONDON/H. COUNTIES

£8-11k

We have been retained by several clients to recruit Programmers keen to progress in an on-line environment, you should have a minimum of two years' ME29 COBOL along with good TP and IDMS knowledge, excellent prospects and benefits.

HONEYWELL ANALYST PROGRAMMER CITY £8,500 + Low cost mortgage

This is a rare chance to work for a major commercial organisation using HONEYWELL Level 84 Hardware, the successful candidate would work in a small friendly team, excellent opportunities will be offered for career development, benefits include BONUS FLEXI-TIME + LOW COST MORTGAGE and INSURANCE.

ANALYST PROGRAMMER (IBM SYSTEM 38) MIDDLESEX £11,000

Our client, a city backed software house offering financial computing services to the insurance sector have just acquired an IBM SYSTEM 38. The company is set for expansion and future prospects are outstanding.

IBM COBOL PROGRAMMER CITY £8,500 + Low cost mortgage

An opportunity to move into an interesting company where you would be part of a team wholly dedicated to the development of new ON-LINE Systems supporting their UK operation, based on an IBM DOS/VSE CICS/DL1 environment. The company is one of the most important and active of its kind, with its head office based in USA. The benefits package is extremely attractive as are the career opportunities.

PL1 PROGRAMMER SURREY £8,750 + Benefits

This prestigious and well-established organisation currently (due to internal promotion) a vacancy for a PL1 Programmer with a minimum of two years PL1, knowledge of Insurance an advantage. Excellent fringe benefits and prospects on offer.

ANALYST PROGRAMMERS MIDDLE/HERTS £11,000

A number of our clients need Analyst Programmers with a minimum of 2 years' COBOL preferably using IBM or ICL Hardware. Excellent opportunities and benefits available to include training in ON-LINE and DATABASE techniques.

ICL COBOL PROGRAMMERS LONDON/ESSEX £7,000-£10,500

As a result of expansion plans our client is seeking programmers with a minimum of 18 months' 2800 series COBOL. Knowledge of VME/B an advantage. The importance of these new positions and the subsequent experience you will gain in new development work will enhance your future prospects enormously. So call now for further details.

SENIOR PL1 PROGRAMMER CENTRAL £9,500 + Perks

A major financial institution using IBM 4341 under OS/VSE urgently seek an ambitious Senior PL1 Programmer with a minimum of two years' PL1. The company's benefits include FLEXI-TIME, BONUS + SPORTS & SOCIAL CLUB and outstanding prospects.

ANALYST PROGRAMMERS SYSTEM ANALYSTS SURREY/KENT £7,000-£12,000

We have recently registered a significant number of career opportunities in Surrey/Kent area, the client base covers a very wide range of commerce and the requirements embrace all major hardware and software currently in use. The benefits package on offer include LOW COST MORTGAGES, BONUSES, FREE BUPA, INSURANCE, LUNCHES, SPORTS & SOCIAL SERVICES. For further information call us now.

RPCII ANALYST PROGRAMMER LONDON £8,500-£10,500

(We train in RPCII) This position offers an ideal opportunity for an RPCII Analyst Programmer preferably financially based keen to join a small team and assist with their current development plans for the new IBM SYSTEM 38. The successful applicant will be rewarded with exciting development schedules, full training in RPCII and SYSTEM 38, generous starting salary + benefits.

(1679)

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THE MIDLANDS SCENE

Bosses – and staff – are very choosy

Job opportunities in the Midlands and Birmingham are assessed by Chris Thornton

THERE are jobs in Birmingham and the Midlands – but firms are very choosy about who they take on, and computer staff are very choosy about where they go, because most of them prefer to hang on to what they've got in times of recession.

"Users are fussy about the type of skills they want from their staff, whereas two or three years ago they were just glad to be able to get people," said one Midlands recruitment specialist.

"We've had more rejections of job offers recently than ever, which indicates that people don't want to move unless they have a very good reason for doing so, like being offered a lot of money or going to a more interesting job."

"But we've found that firms are no longer prepared to offer the earth to tempt people to move. Employers aren't keen to get involved in auctions for the services of computer staff. They are trying to stagnate the salary market."

The current recession is the reason for the gloom. Birmingham and the West Midlands, with its heavy industrial base, has been particularly badly hit. The recession has hit development budgets as firms have tightened their belts, and very often the first department in a company to be hit is data processing.

Managing directors of companies and their boards of directors may want development work to go ahead, but when they learn from the data processing managers that to continue with a project would mean taking on more staff, they are quite prepared to wait until they find the right person rather than fill the vacancy yesterday.

"At the moment there are more opportunities for programmers with average experience. Things are very competitive at project manager level. Data processing managers and other senior managers have no chance of getting jobs; and the market for contractors, which is never particularly good in the West Midlands, is at the best of times, is depressed.

"The only people with genuine grounds for optimism are sales executives, but then there's always a shortage of good salespeople and there's really no market for operators."

But things aren't quite as gloomy as they appear. For one thing, there are few experienced computer people on the dole in the West Midlands. The problem is that people aren't moving because they are frightened to

move, and as they are appearing (people still buy computers, even in recession) and that means new opportunities for both temporary and permanent and an exceptional agent sometimes reports it but a lot of activity". But they are very much the exception.

Overall, Midland agents report a feeling of optimism and can "see light at the end of the tunnel". But a lot of Midlanders' hopes are pinned on an autumn package from Mrs Thatcher.

Douglasville" was the forth-

coming election.

Computer Weekly reaches more Programmers than its nearest competitor

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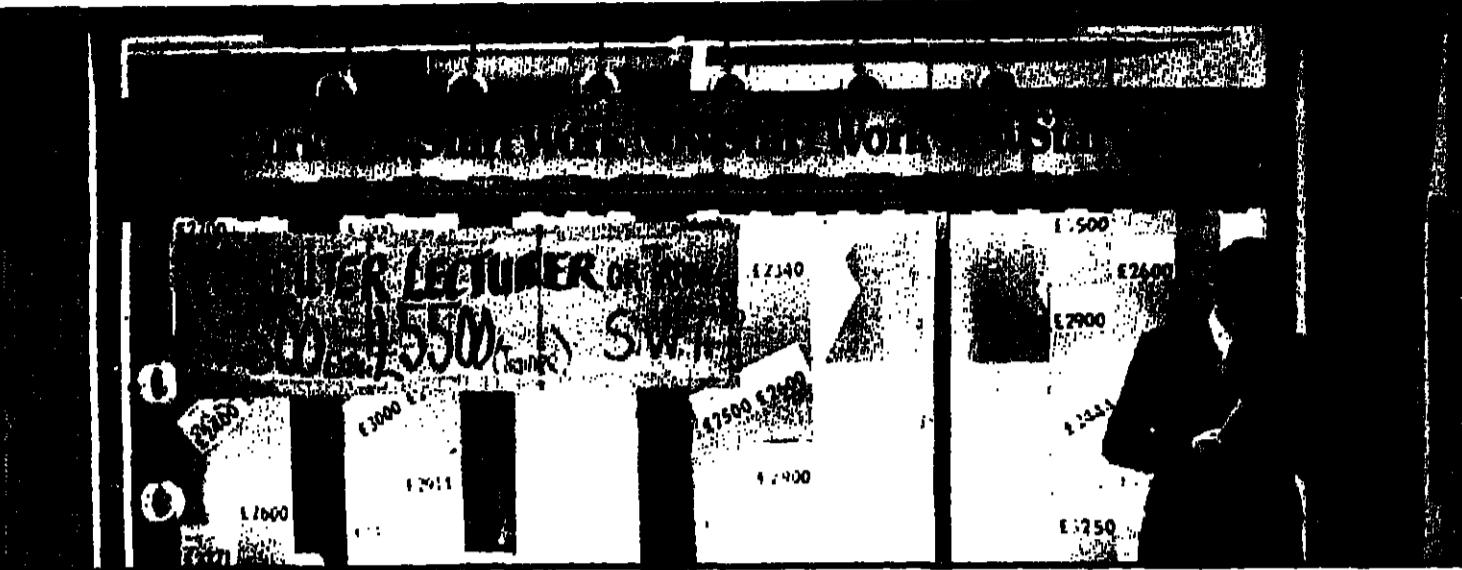
Computer Weekly reaches more Programmers than its nearest competitor

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WEST COUNTRY RECRUITMENT

Chris Thornton looks at an area where 'opportunities for work are superb if you are prepared to put yourself out'

Bristol back in first division — as a high technology centre



In addition, Bristol has always been a financial and commercial centre, has beautiful surroundings, and with the advent of high speed trains and the opening of motorways like the M4 and M5, has become a communications centre, with easy access to South Wales, the Midlands, the Thames Valley, and the rest of the South-west region.

All those advantages have lured high technology companies to the region. There's Logica in Swindon, Marconi, Sperry Gyroscope, Fairchild and Hewlett-Packard in Bristol, while Philips Business Systems plans to open its headquarters in Swindon in two or three years.

"Opportunities for work are superb if you are prepared to put yourself out," says one recruitment specialist working in the area. "Swindon and Bristol

are growth areas, with a lot of companies moving to the area, and there have always been insurance and finance companies like Hambros, Eagle Star and Sun Life."

Add to that the Phoenix Assurance, Clerical, Medical and General, Trident, Mercantile and General, Lorraine-Lambert and National Employers Mutual, all of which have offices in the Bristol/Gloucester/Chesterfield/Swindon area, and just think of how reliant commercial and financial companies are on their computers, and you have an idea of the scope for

employment in the West. Yet Wales and the West Country have long appealed for the scenery and as places to spend holidays rather than as places to hit the big time in terms of career prospects.

This is partly because of low salaries. There are usually plenty of vacancies in places like Somerset and Cornwall but they are not filled because salaries are below what programmers and computer staff have come to expect from other areas.

But salaries in the growth areas around Bristol/Swindon/Bath are catching up on

and rivalling those in the South-east.

"Employers in Britain's Silicon Valley — as the West is known — automatically pay good salaries to attract the right sort of people," says one recruitment specialist.

And Keith Gay, associate director of AB Executive of Bristol, says that whereas salaries in the West were below the South-east and other parts of the country, this is no longer the case — and he says he has one software vacancy on his books at the moment paying a salary of £20,000.

Many large multinational companies with big management service departments, like Burmah Castrol, have their headquarters in the West. "It's an attractive area, which is why it draws companies," says Mike Beasley, of Sanderson Recruitment.

"Companies move from London to cut costs, but communications are good, the pace of life is slower, salaries are as good as in London, and the countryside is attractive.

"But you have to be good to work here. Standards seem to have risen over the last year or so, and the days when firms took staff on en masse seem to have almost disappeared.

"Nowadays companies look for experienced, talented staff, and will probably find room somewhere for a high calibre person. "Our clients are looking for skilled staff with at least three or four years' experience in particular disciplines," says John Haigh, of AB Executive. "Good project leaders are in demand, so are systems analysts with knowledge of production systems for manufacturing. Most opportunities in the

area are for experienced, talented staff, and will probably find room somewhere for a high calibre person.

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Development Manager

c.£13,000

Marcol is a well-established software company with extensive in-depth experience in many areas of data processing, dedicated to the concepts of superior service and customer satisfaction.

An exciting opportunity exists within the Hotel Systems Division for a Development Manager to be responsible for the development and control of Marcol's hotel package — CHAMPS. CHAMPS is an on-line system catering for all front and back office requirements of hotels, and is installed throughout the world.

The successful candidate (male/female) will have a sound commercial programming and analysis background coupled with strong management and communication skills.

The package will comprise a basic salary of up to £13,000, worldwide travel opportunities, equity participation and a full range of first class company benefits.

So, if you are interested in joining a team of enthusiastic professionals and enjoy a hard-working but stimulating environment, telephone or write to:

Penny Bailey, Personnel Manager,
Marcol Computer Services Ltd.,
60 Queen's Gardens, London W2 3AF.
Telephone: 01-402 9355/0995

MARCOL
Communication and Information Systems

ANALYST Start the New Year in a New Job!

Up to £10,000

The Analyst

The successful candidate will gain invaluable experience of the complete development cycle of a major real time system. Ideally two years of good analysis experience (preferably with on-line design, using C10S), is required, but energy and enthusiasm are also essential requirements.

The Environment

The department operates an IBM 4331/3 with DOS/VSE and C10S. There is a planned upgrade to a 4341/1 in December 1982 to cope with the development programme.

The Company

The company is the UK subsidiary of one of Europe's largest high precision technology engineering groups and is committed to long term development of real time systems.

The location is close to motorway, road, rail and tube links. Company benefits include relocation assistance, where appropriate, pension scheme, subsidised restaurant, flexible working hours and generous staff discounts.

Please apply in writing, with full details of your career to date, or telephone for an application form quoting ref 0/695 to Brian Withers,

GERRARDS
Gerrard Recruitment Service
35 Chapel Side, Moscow Road, London W8 4LJ. Tel: 01-747 548.

EXPERIENCED DOS/VSE OPERATOR/SUPERVISOR

SIX MONTHS' CONTRACT
POUNDS 250/300 p.w.

BAHRAIN

The general organisation for Social Insurance, of Bahrain, is taking delivery of an IBM 4331 computer in January 1983. The system will operate under SSX using ICCF/CICS and VSAM Software.

An experienced DOS/VSE operator is required to supervise the operation of the computer and train Bahraini operations staff to take over the running of the machine. The computer department currently employs over 20 staff in Data preparation and systems and programming functions.

The contract would be on single status basis for six months' in the first instance, free accommodation would be provided.

Interested applicants should write to Patrick Hull at the address below by the end of November for interview in London in December. Please include full details of your career to date.

General Organisation For Social Insurance
P.O. Box 5319
Manama
Bahrain

(1672)

PROGRAMMER/ANALYST

(CONTRACT FOR ONE YEAR)

The Press Association news agency which provides a news and information service, requires the services of a self-employed Programmer/Analyst for an initial contract period of one year. The function of the task will be to rewrite existing and develop new programmes for use on a DEC PDP installation using MACRO and RT11.

The successful applicant will have had at least three years' experience in this field and preference will be given to those who also have experience of typesetting, telecommunications and message switching.

The contract will be reviewed after nine months with a view to possible extension. A fee of £11,000 is offered for the year, payable in twelve monthly instalments. Other terms will be subject to negotiation.

Candidates should write fully to:
Deputy Personnel Manager
The Press Association Ltd.
88 Fleet Street
London EC4P 4BE

(1337)

Analyst/Programmers Real-Time Systems + Technical Writer (Hardware/Software) (Wokingham, Berkshire)

The Person

You should have a good degree in Computer Sciences and a minimum of two years' experience of real-time systems on mini-computers. PASCAL, COBOL, specification, design and systems analysis would be a definite advantage.

The Job

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The Company

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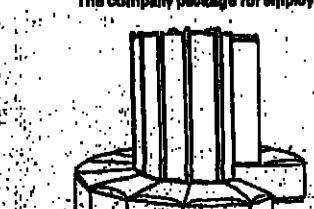
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IRISH RECRUITMENT SCENE

Despite the influx of foreign computer expertise, this has not really rubbed off on the Irish, says Della Bradshaw

Eire woos foreign electronics manufacturers to create jobs

UNEMPLOYMENT is a nasty word everywhere these days, but in Ireland particularly so. In the Republic unemployment stands at around 13.5% and in the North it borders 20%.

With computers held up as the scapegoat for many of the problems in the UK it seems rather strange that computer and electronics manufacturers are being wooed across the seas as job producers.

The most vociferous proponent of Ireland has always been the Irish Industrial Development Authority (IDA). It has an arm-long list of the virtues of setting up your computer company in the Republic: Capital grants of up to 60%, training grants of up to 100%, and corporate tax rates of as little as 7.8%, not to mention a workforce that barely knows the meaning of trade unions or strikes.

The IDA has had its successes. Foreign companies presently employ about 34% of the workforce, and in computer terms that means the big name American companies like DEC, Am-dahl and Wang, which has recently announced plans to increase its workforce from 300 to 1,000, and Japanese manufacturers like Fujitsu, NEC and Sord, which is planning to set up its European research and development centre in Dublin.

But the IDA has also come under fire recently from the government-commissioned report produced by Telesis, a US consultancy. The IDA spends about 11% of the Republic's capital budget, which Telesis says is too much.

The IDA in retaliation can point to its track record in the electronics field. US firms re-invest nearly three-quarters of their profits in Ireland, and although the incentives offered by the

The last time we advertised there was a big response from English people who wanted to go over to Ireland

IDA are for set-up industries, which in the past has encouraged companies to take the money and run, this has not happened so far with the new breed of electronics and computer manufacturers.

But will all this reinvestment help Ireland out of its economic difficulties?

In spite of the influx of foreign computer expertise, this expertise has not really rubbed off on the Irish. There is only one home-grown Irish microcomputer manufacturer, Transtec, which employs 30 people at the moment and hopes to increase that to 50 within

the year - which makes the company's aspirations "to become as big as Apple" look pretty bleak. Nor will a lot of people be needed in that area.

There have been quite a lot of "foreign" software houses setting up in Ireland as well, particularly from the US and the UK. It's not the small companies either: Micropro and CACI are two of the American companies, and Computer Ancillaries and Altergo are from the UK.

Altergo set up in Dublin in 1975 because "there was an oversupply of good-quality graduates there and very favourable incentives to create a company," according to Dick Jones, managing director of Altergo from the UK.

"There are increasing opportunities in Ireland in all areas," he claims, "especially for IBM System 34 and 38 people and on the IMS software side. There are also demands for people in consultancy and for project leaders. The last time we advertised there was a big response from English people who wanted to go over to Ireland."

There are also a lot of people returning to Ireland, after 10 or 20 years abroad, and are taking up high level and specialised jobs in the DP and electronics industries.

IDS specialises in applications for vertical markets like insurance broking and pub stock control, but

Patrick O'Sullivan, the managing director, believes one of the big areas where people are needed is in training. "We've just set up a separate training department which is running courses on CP/M and financial spreadsheets for new users and people who are

thinking of buying a computer," says O'Sullivan. "Another area is support - a lot of people are needed in that area."

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Cork, one of Ireland's oldest cities and the European centre of Apple, North Star and a host of other known computer companies.

counterparts it could push that figure up even further.

In Northern Ireland the prospects are even bleaker. The Northern Ireland Development Board, which replaced the Northern Ireland Industrial Development Authority in September, admits the over the past year no new European or American computer or electronics firms or software houses have set up in Ulster despite the massive advertising campaigns and claims of a "new Silicon Valley" in the North. Nor could the NIDB come up with any home-grown companies set up in that period either.

But whether this is going to cut back unemployment is questionable. The jobs are there at the moment, but are

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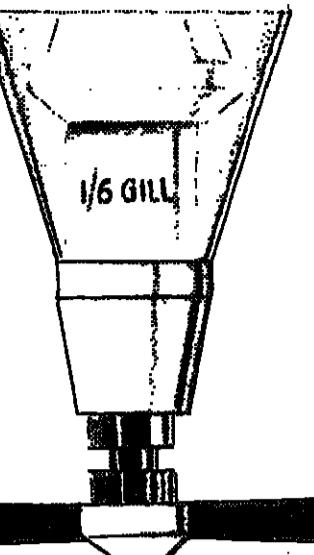


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Our client, a major manufacturer, is currently seeking salespeople in the following categories:

NEW BUSINESS SALES. Good education, a good record in selling business equipment, and a sound knowledge of commercial applications are required.

COMPETITIVE SALES. You must already be a Mini- or Mainframe salesperson with a first-class trade record and an in-depth knowledge of competition.

STRATEGIC ACCOUNT SALES. As above but preferably with the additional experience of selling to major accounts.

Please telephone Camberley (0276) 32898 (office hours) or Farnborough (0282) 516978, evenings and weekends.

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We are one of the largest distributors of Magnetic Storage media in the UK, representing Verbatim, the acknowledged World No. 1 in diskette manufacturing.

To cope with the growth levels in this market, we now need to recruit additional salespeople. Preferred locations are Bristol and Birmingham/Leicester area. Outstanding candidates from other areas may also be considered.

The successful applicants will be accustomed to working under pressure in a fast expanding market, and should have experience of the magnetic media, or D.P./W.P. supplies markets. In return, we offer a performance-related earnings package, company car, and other benefits associated with a rapidly growing company.

Written applications, please, to:

Peter Jarvis
Sales Manager - Computer Products
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SALES BIT

Quality of Management — 30

How to avoid being a pig in the middle

A FEW days ago I was having lunch with the managing director of one of the major computer manufacturers (no, he paid!). Among other things, he mentioned his displeasure at the insatiable appetite of the "corporate tigers" on the other side of the Atlantic for more and more information and the increasing complexity of detail and presentation of the data being demanded.

In other words, people who make out calls reports need to know they are not wasting their time. Okay, they have much to benefit themselves from the maintenance of selling records, but they need to know their boss really cares and can be called upon in times of trouble or triumph. From the sales manager's point of view, it is extremely unlikely that he can afford the luxury of responding formally to every call report he receives, but he must make a point of replying to every document that contributes valuable facts.

To merely accept without as much as an acknowledgement, is to imply disinterest or that the information concerned is of no value. Either suggestion can only result in the demotivation of the sender. The easiest way is to make a note on the call report concerned and return it, or a copy of it, to the sender.

"Thanks for the information. Please let me know if you need any help from me, or technical support".

"Looks bad. Can we get together some time on Friday and discuss it?"

"Congratulations! We've been trying to close this account for ages. Everyone here is chuffed. Well done."

Such messages not only mean what they say, but also infer that such information is valuable and appreciated, and more to the point, read volumes inversely proportionate to sales achievement.

It is a frustrating and potentially destructive sandwich that can ultimately result in the very opposite of what an effective reporting system is designed to achieve.

Resolving this kind of problem although not easy, is not impossible. There is only one starting point and that is the process of putting one's own house in order - ensuring that the reporting system between one's subordinates and oneself is effective.

However, the chances are your peers will command the efficiency of communications between your troops and yourself, while at the same time insisting that you tow the corporate line, if only because that's the way it's always been done.

On the other hand, they is flak coming up from territory salespeople, usually in the form of "I've been too busy to write any call reports", or "I don't really see the need", usually in volumes inversely proportionate to sales achievement.

That means it must be brief, relevant and interactive. Verbosity, irrelevance and tardiness are a severe malady for any reporting system, but a total lack of response to one's reporting endeavours, like posting letters in a dustbin,

Alan Williams

COURSES

■ WOMEN with management potential may benefit from a women-only course to be held by the City University Business School in February next year. Managerial Effectiveness for Women includes two weeks of full-time study with an optional follow-up workshop. The accent is on personal development and career planning. Suitable applicants are likely to be between 30 and 40, earning £10,000 plus, and of management or equivalent technical levels. Candidates who have been identified by their companies as having real management potential. The course will be held in London, and the fee is £1,200.

Details from Jan Leeming on 01-444 5955.

■ THE Coventry (London) Polytechnic has two micro-computer courses lined up for early next year. On January 4-5, a workshop entitled Engineering Applications of Microcomputers is intended for engineers and technicians of any discipline who have an interest in the application of micros to sequence control, closed-loop control, measurement and data logging. The Microcomputer Workshop, scheduled for January 6-7, is intended for those who have little or no knowledge of micro-computer systems. Details from Carolyn Hall on (0203) 24166 ext 7606.

MINI/MICRO PROGRAMMERS

Our client Format Communications, a small but established company in the field of message switching, have now embarked on a major expansion phase creating opportunities at all levels for the support of existing products and a major development project.

Candidates with one-five years' experience, should be able to work with the minimum of supervision, communicate clearly, and have experience in some of the following areas: Mini/Micro computing in a technical environment, Communications, Assembler/Pascal, Real-time Systems, Word Processing.

Based in Uxbridge. Salaries will reflect responsibilities and previous experience. Contact Richard Gaskell on the number below.

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Ealing College of Higher Education

St Mary's Road, Ealing W5 5RF

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required to join two other programmers in providing a range of applications and user services to staff, students and administration, on a Prime 550 timesharing system.

A sound knowledge of computing is required with a relevant degree and at least two further years' of practical experience.

Further details and application forms from the Chief Administrative Officer, Ealing College of Higher Education, St Mary's Road, Ealing, London W5 5RF. Telephone 01-579 4111, Extension 3230. Closing date: 26 November 1982. Ref No: ED 711.

(1440)

WEST COUNTRY

Rapidly expanding manufacturer of high technology communications equipment seeks to expand the nucleus of the advanced products research group. The person sought is likely to possess:

At least two years' practical experience since graduation; a very good degree in either Electronics, Physics, Computer Science etc; the ability to accept intellectual challenge in a stimulating environment.

Besides the usual benefits associated with a progressive manufacturer there is an above average salary, a rapidly expanding environment which is likely to continue unabated and relocation assistance where necessary.

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We offer a substantial basic salary plus incentives that will enable you to earn in excess of £20,000 in your first year. In addition you will receive the benefits expected from a major organisation including a company car, pension scheme, life assurance, etc.

If you are ready to accept the challenge offered by these appointments apply in writing sending a brief cv or telephone for an application form to: Mike Batson, Marketing Manager, **Ericsson Information Systems Limited**, Swan Office Centre, 1508 Coventry Road, Yardley, Birmingham B25 8BN. Tel: 021 707 3050.

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